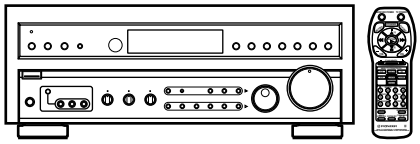
PIONEER®
The Art of Entertainment

Service Manual



ORDER NO.
RRV1897

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D607S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	The voltage can be converted by the following method.
	VSX-D607S		
KUXJI	○	AC120V	————————
KCXJI	○	AC120V	————————
SDXJI	○	AC110V/120-127V/220V/240V	With the voltage selector

CONTENTS

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PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 501 Orchard Road, #10-00 Lane Crawford Place, Singapore 0923

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).
When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

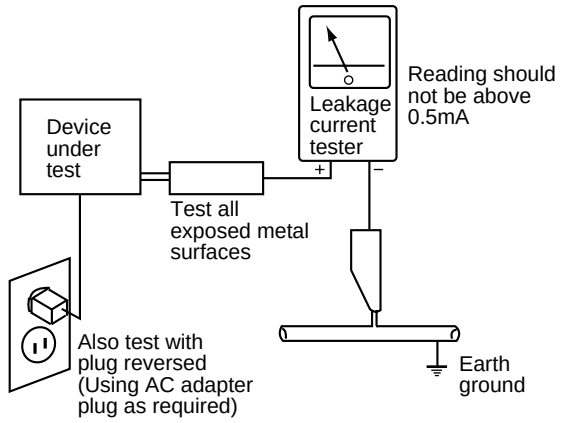
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

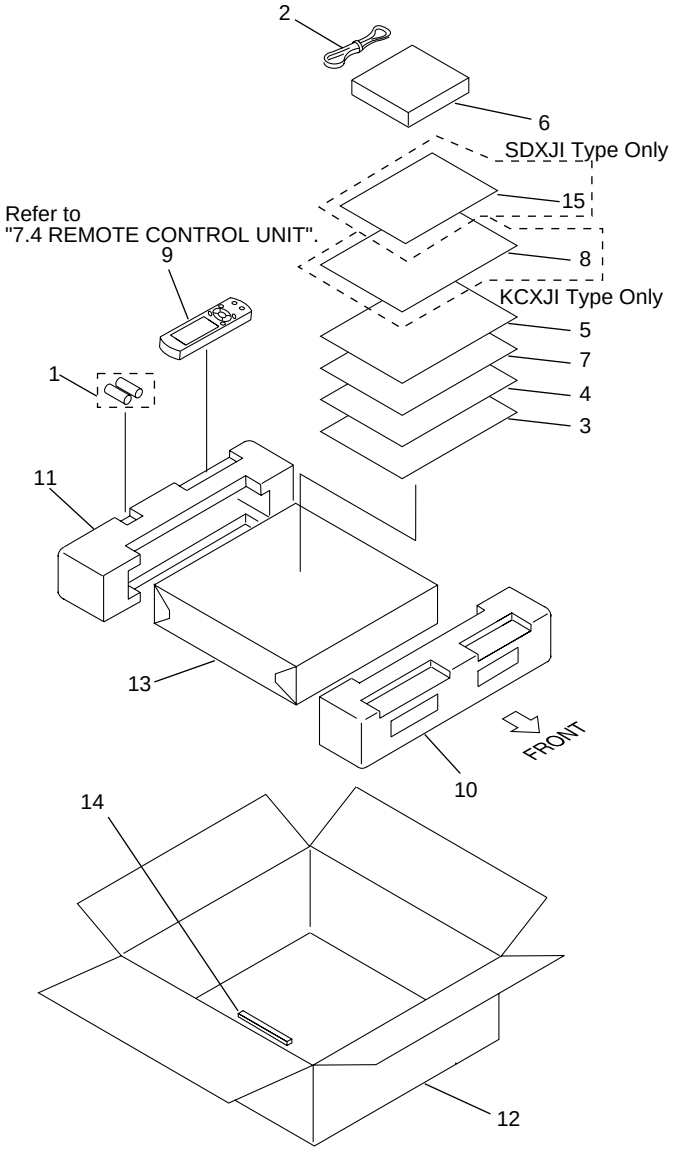
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

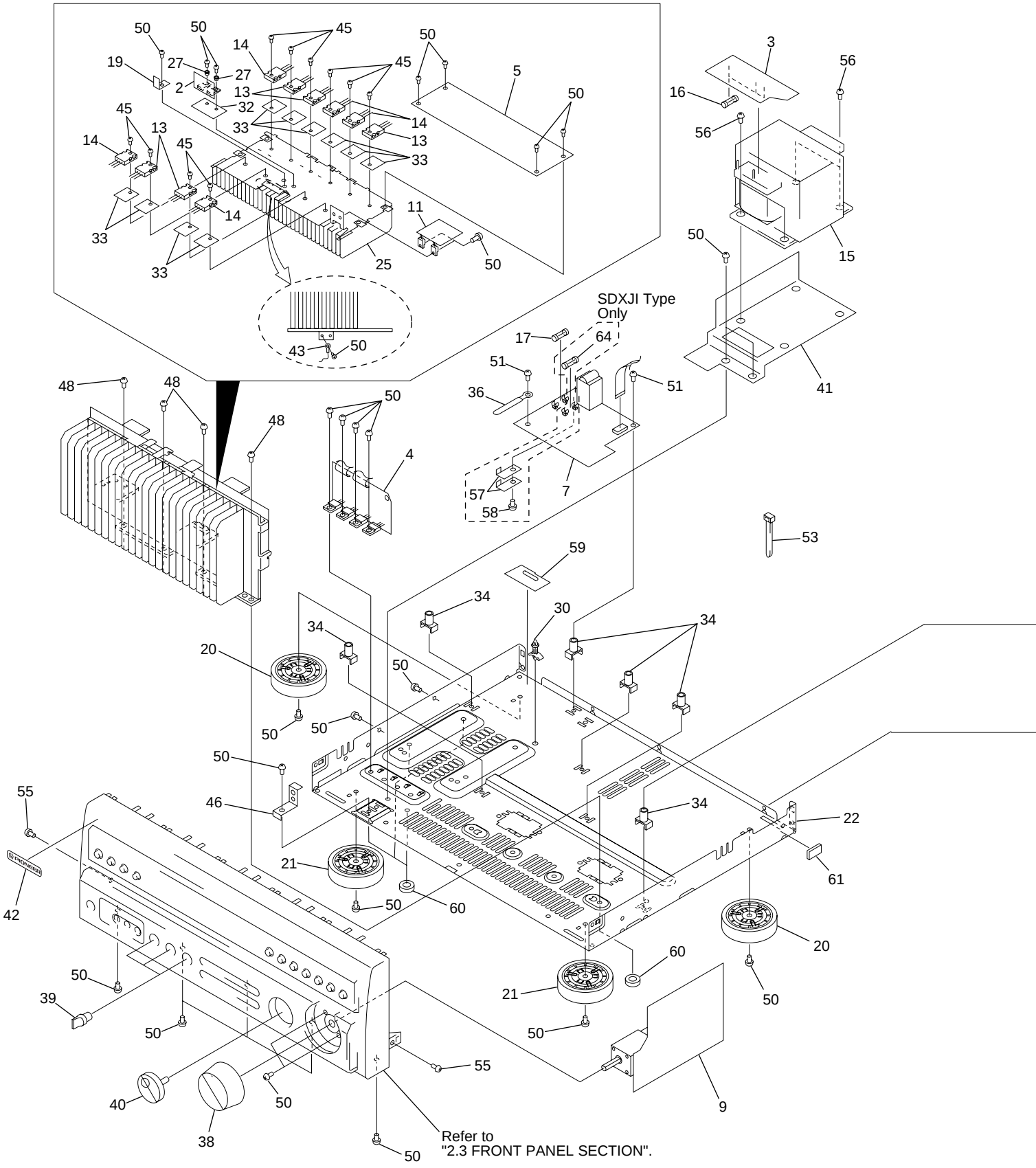
Mark	No.	Description	Part No.
NSP	1	Dry Cell Battery (LR6,AA)	AEX1007
	2	FM Antenna	ADH7004
	3	Operating Instructions	See Contrast table (2)
	4	Sub Instruction Manual (Remote Control Unit)(English)	ARH7015
NSP	5	Warranty Card	See Contrast table (2)
	6	AM Loop Antenna	ATB7009
	7	Sub Instruction Manual (AC-3) (English)	ARH7030
	8	Operating Instructions (French)	See Contrast table (2)
	9	Remote Control Unit (CU-VSX128)	AXD7153
	10	Front Pad	AHA7137
	11	Rear Pad	AHA7140
	12	Packing Case	See Contrast table (2)
	13	Packing Sheet	AHG7010
	14	Sub Pad B	AHB7027
	15	Caution 220V Label	See Contrast table (2)

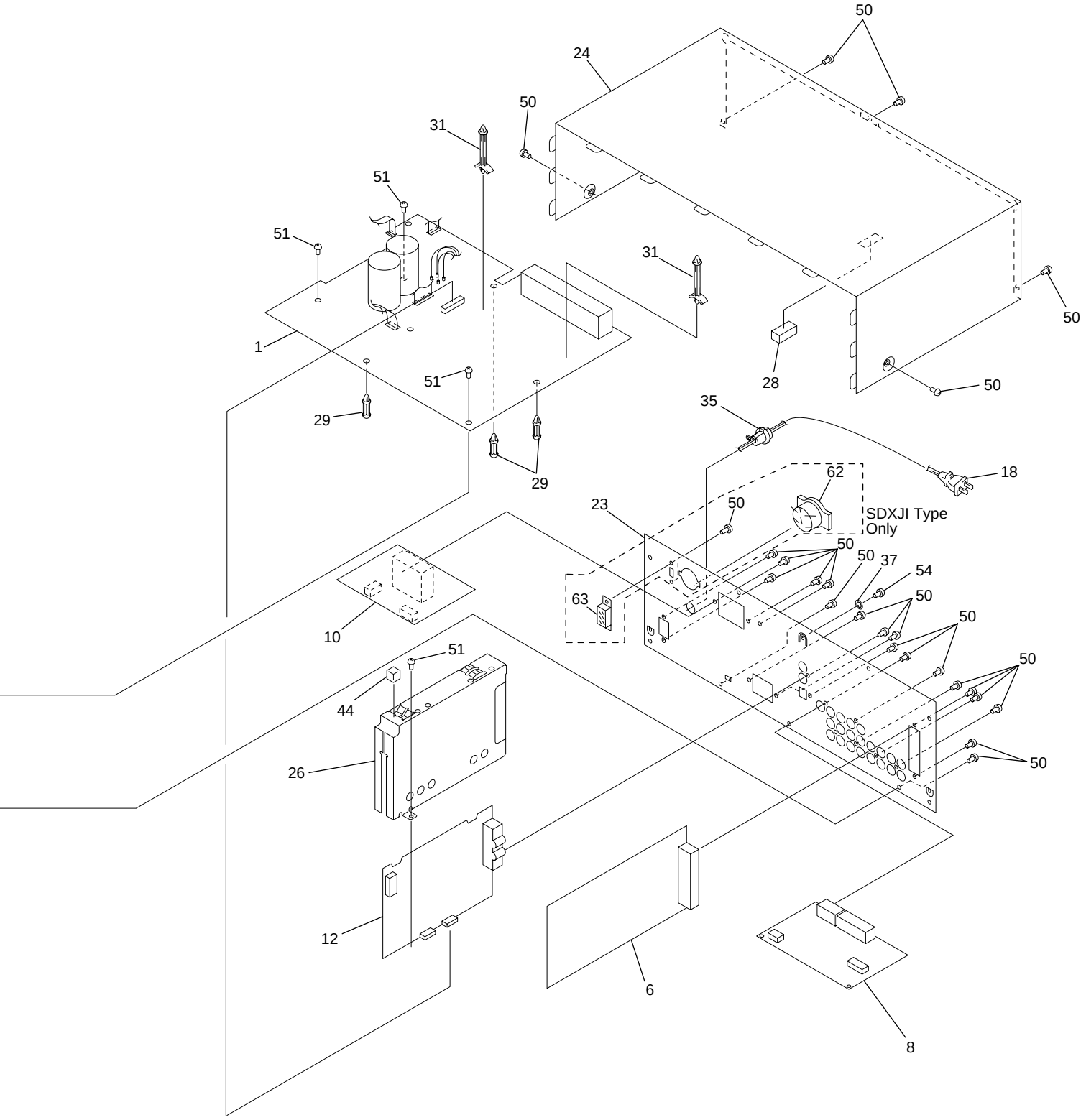
(2) CONTRAST TABLE

VSX-D607S/KUXJI, KCXJI and SDXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			VSX-D607S /KUXJI	VSX-D607S /KCXJI	VSX-D607S /SDXJI	
	3	Operating Instructions (English)	ARB7140	ARB7140	Not used	
	3	Operating Instructions (English/Chinese/Spanish)	Not used	Not used	ARE7155	
NSP	5	Warranty Card	ARY1051	ARY1075	ARY1077	
	8	Operating Instructions (French)	Not used	ARC7189	Not used	
	12	Packing Case	AHD7570	AHD7570	AHD7571	
	15	Caution 220V Label	Not used	Not used	ARR1003	

2.2 EXTERIOR




50
24
50
31
51
51
31
50
1
28
50
51
29
29
35
18
62
23
50
SDXJI Type
Only
50
50
37
54
63
50
50
10
50
51
50
44
26
50
12
6
8

(1) EXTERIOR PARTS LIST

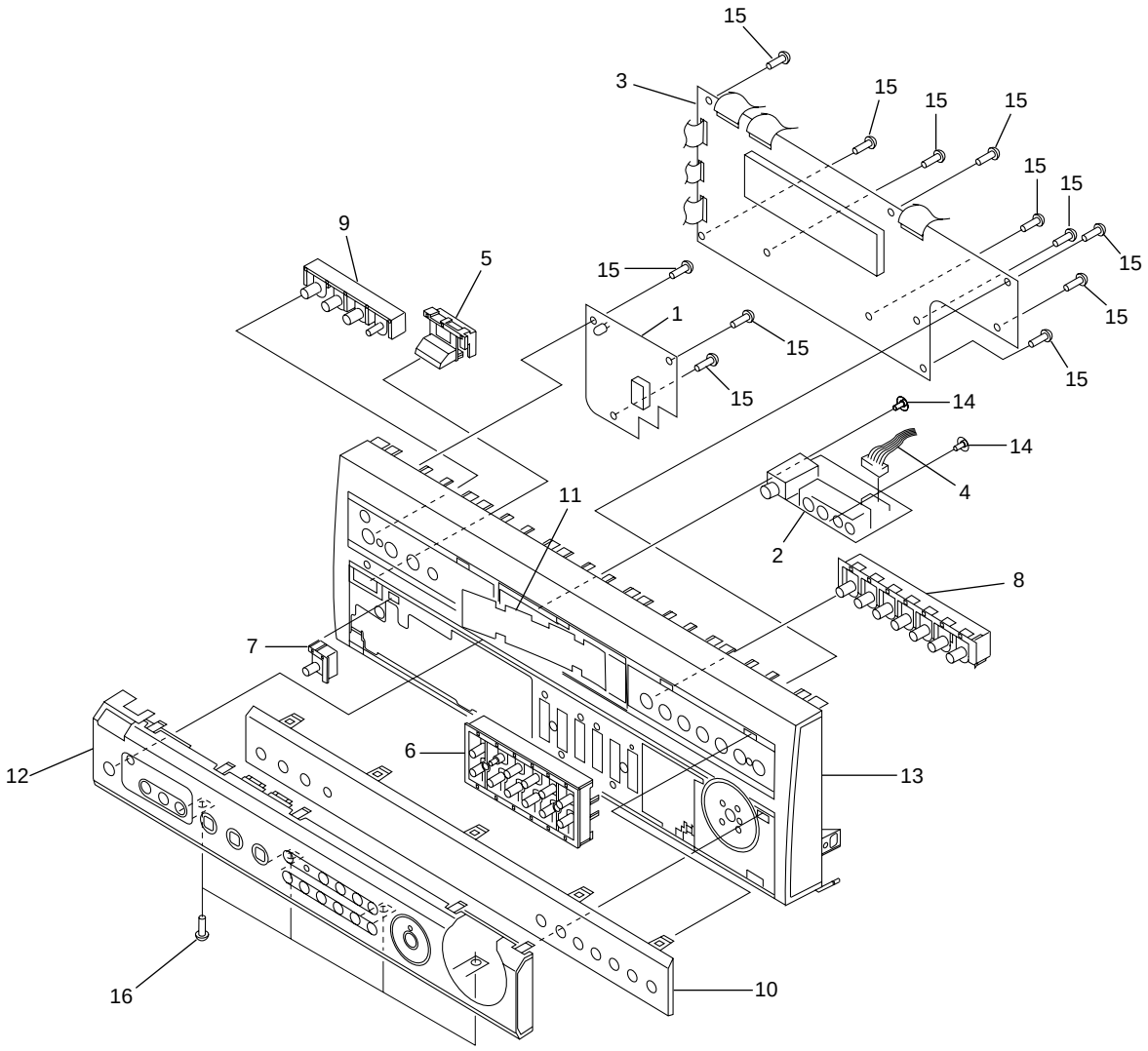
Mark	No.	Description	Part No.
	1	INPUT Assy	See Contrast table (2)
NSP	2	MOS FET Assy	AWZ8497
	3	TRANS Assy	AWZ8496
	4	REG.1 Assy	AWZ8507
	5	R/C AMP Assy	AWZ8504
	6	FM/AM TUNER Module	See Contrast table (2)
NSP	7	PRIMARY Assy	See Contrast table (2)
	8	VIDEO/SR Assy	AWZ8509
	9	VOLUME Assy	AWZ8047
	10	R/C SPEAKER Assy	See Contrast table (2)
	11	REG.2 Assy	AWZ8498
	12	DOLBY DIGITAL Assy	AWX7042
⚠	13	Transistor(Q3,Q4,Q7,Q8,Q10)	2SA1962
⚠	14	Transistor(Q1,Q2,Q5,Q6,Q9)	2SC5242
⚠	15	Power Transformer	See Contrast table (2)
⚠	16	Fuse (FU3-FU5 : 1.6A)	REK1077
⚠	17	Fuse (FU1)	See Contrast table (2)
⚠	18	AC Power Cord	See Contrast table (2)
	19	FET Plate	ANG7124
	20	Insulator	AMR7198
	21	Insulator	PNW2766
	22	Chassis	ANA7052
	23	Rear Panel	See Contrast table (2)
	24	Bonnet Case	ANE7136
	25	Radiator	ANH7050
	26	Shield Case	ANK7037
NSP	27	Bushing	AEC1402
NSP	28	Cushion	AEB7076
	29	PCB Support	AEC1581
	30	PCB Support	AEC7006
	31	PCB Support	AEC7056
	32	Sheet	AEE1028
	33	Sheet	AEE7010
	34	PCB Mold	AMR2533
	35	Cord Stopper	See Contrast table (2)
NSP	36	Clamper	RNE1277
	37	Washer	AEC7110
	38	Round Knob L	AAB7082
	39	Round Knob S	AAB7106
	40	Jog Knob	AAB7048
	41	Trans Frame	ANG7140
	42	Name Plate	PAM1755
NSP	43	Cord with Plug (J105)	DE012CD0
	44	Cushion Rubber	AEB7081
	45	Screw	ABA1037
	46	PCB Stopper	ANG7136
	47	.•••••	
	48	Screw	ABA7019
	49	•••••	
	50	Screw	BBZ30P080FZK
	51	Screw	BBZ30P180FMC
	52	•••••	
NSP	53	Binder	ZCA-BK1
	54	Screw	ABA7035
	55	Screw	ABA-298
	56	Screw	ABA1147
	57	Barrier	See Contrast table (2)
	58	Push Rivet	See Contrast table (2)
	59	Spacer	AEE7024
NSP	60	Spacer	AEB7092
NSP	61	Spacer B	AEB7086
⚠	62	Voltage Selector (S1)	See Contrast table (2)
⚠	63	Voltage Selector (S2)	See Contrast table (2)
⚠	64	Fuse (FU2 : 3.15A)	See Contrast table (2)

(2) CONTRAST TABLE

VSX-D607S/KUXJI, KCXJI and SDXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			VSX-D607S /KUXJI	VSX-D607S /KCXJI	VSX-D607S /SDXJI	
	1	INPUT Assy	AWX7148	AWX7148	AWX7149	
	6	FM/AM TUNER Module	AXQ7219	AXQ7219	AXQ3112	
NSP	7	PRIMARY Assy	AWZ8865	AWZ8865	AWZ8866	
	10	R/C SPEAKER Assy	AWZ8505	AWZ8505	AWZ8613	
⚠	15	Power transformer (AC120V)	ATS7161	ATS7161	Not used	
⚠	15	Power transformer (AC110V/120-127V/220V/240V)	Not used	Not used	ATS7163	
⚠	17	Fuse (FU1 : 6.3A)	REK1085	REK1085	Not used	
⚠	17	Fuse (FU1 : 3.15A)	Not used	Not used	REK1064	
⚠	18	AC Power Cord	PDG1015	PDG1015	ADG1157	
	23	Rear Panel	ANC7650	ANC7650	ANC7652	
	35	Cord Stopper	CM-22C	CM-22C	CM-22B	
	57	Barrier	Not used	Not used	AEC7137	
	58	Push Rivet	Not used	Not used	AEC7138	
⚠	62	Voltage Selector (S1)	Not used	Not used	AKX-507	
⚠	63	Voltage Selector (S2)	Not used	Not used	AKX1004	
⚠	64	Fuse (FU2 : 3.15A)	Not used	Not used	REK1064	

2.3 FRONT PANEL SECTION



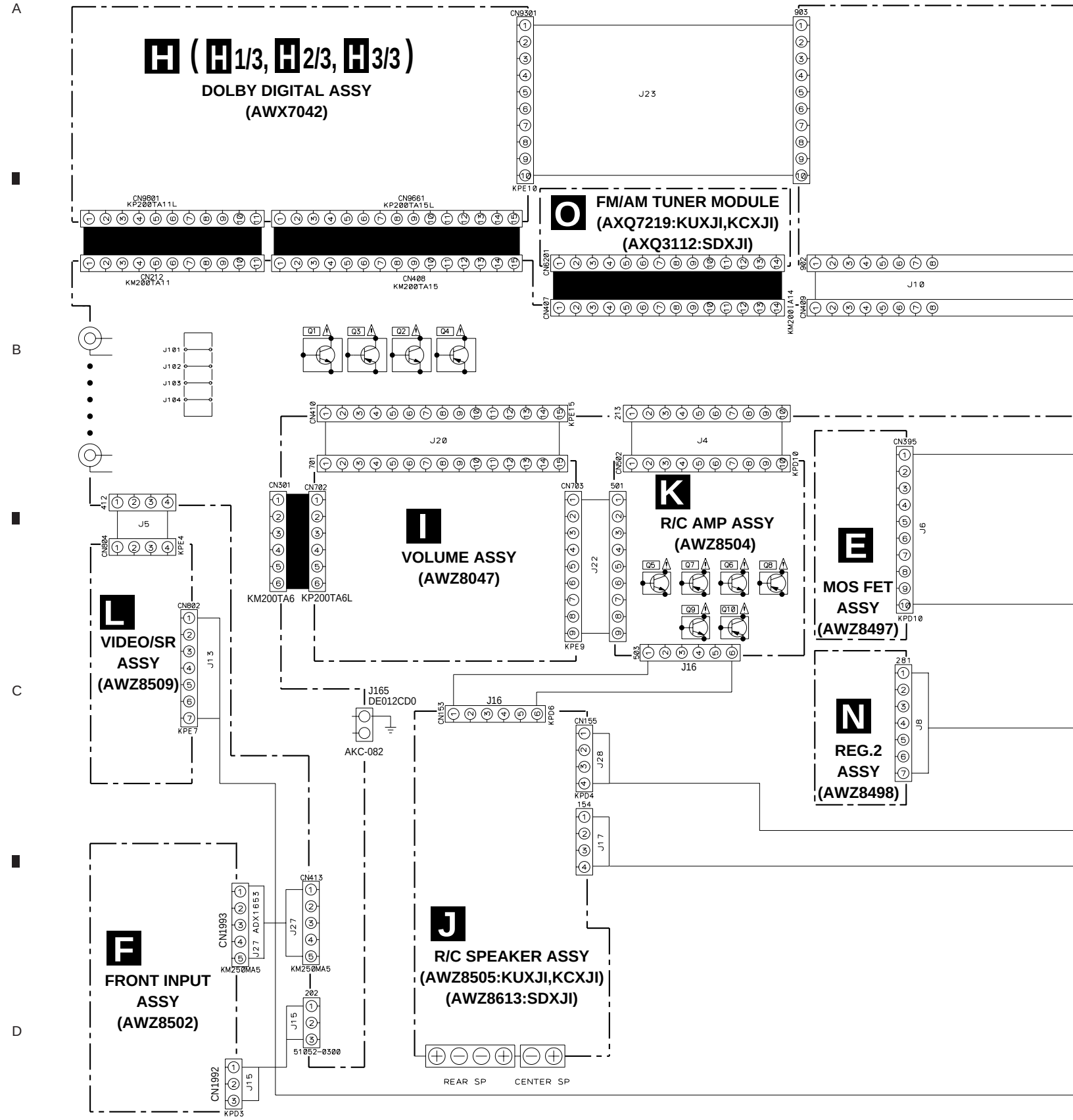
● FRONT PANEL SECTION PARTS LIST

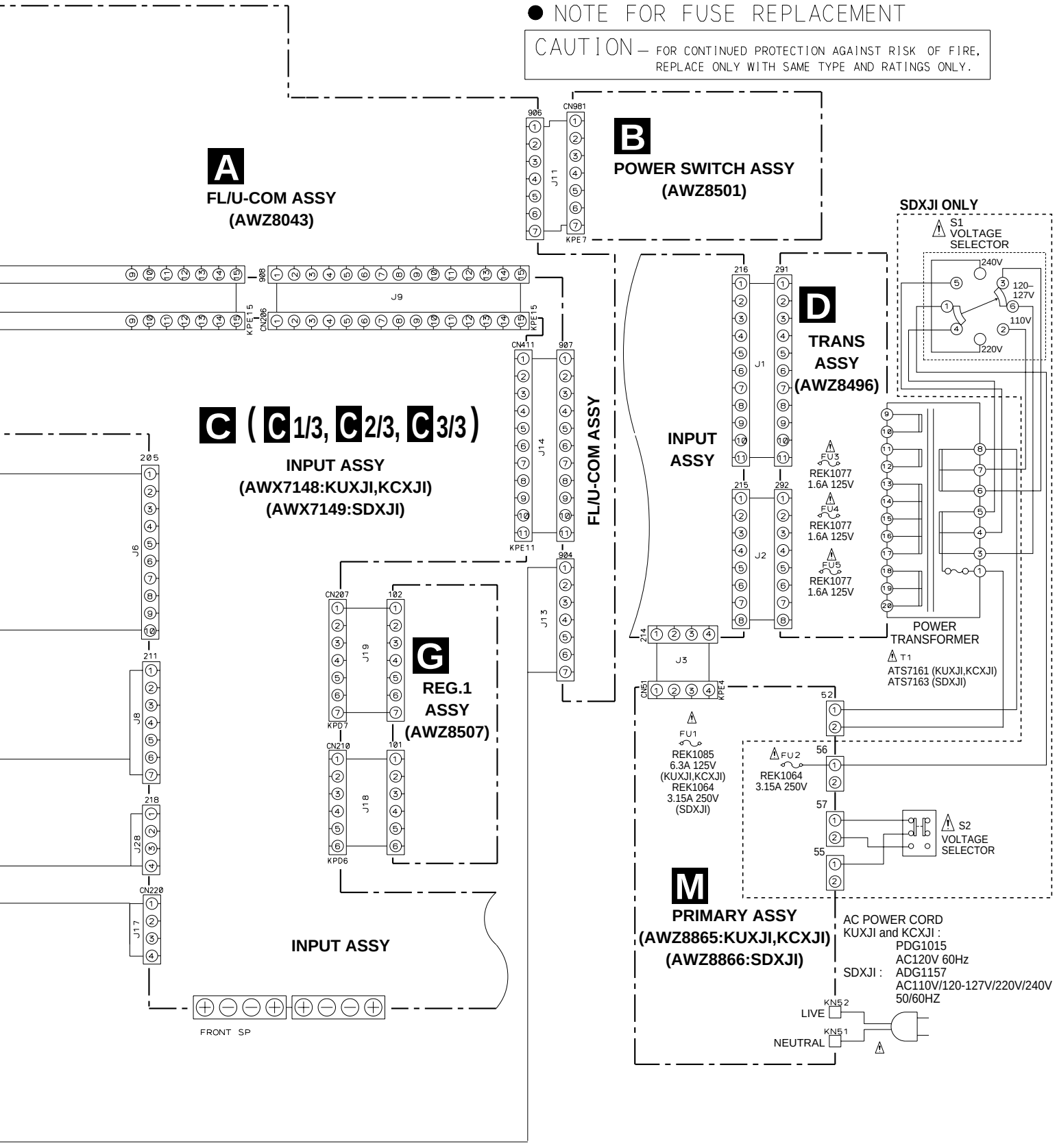
Mark	No.	Description	Part No.
NSP	1	POWER SWITCH Assy	AWZ8501
NSP	2	FRONT INPUT Assy	AWZ8502
	3	FL/U-COM Assy	AWZ8043
NSP	4	Housing 5P Shield (J27)	ADX1653
	5	Power Button	AAD7325
	6	Tuner Button	AAD7326
	7	Input Button	AAD7327
	8	Func. Button	AAD7328
	9	SFC Button	AAD7329
	10	FL Panel	AAK7295
	11	FL Filter	AAK7294
	12	Sub Panel	AAP7042
	13	Front Panel	AMB7501
	14	Screw	ABA7009
	15	Screw	BPZ30P080FMC
	16	Screw	BBZ30P080FZK

3. SCHEMATIC DIAGRAM

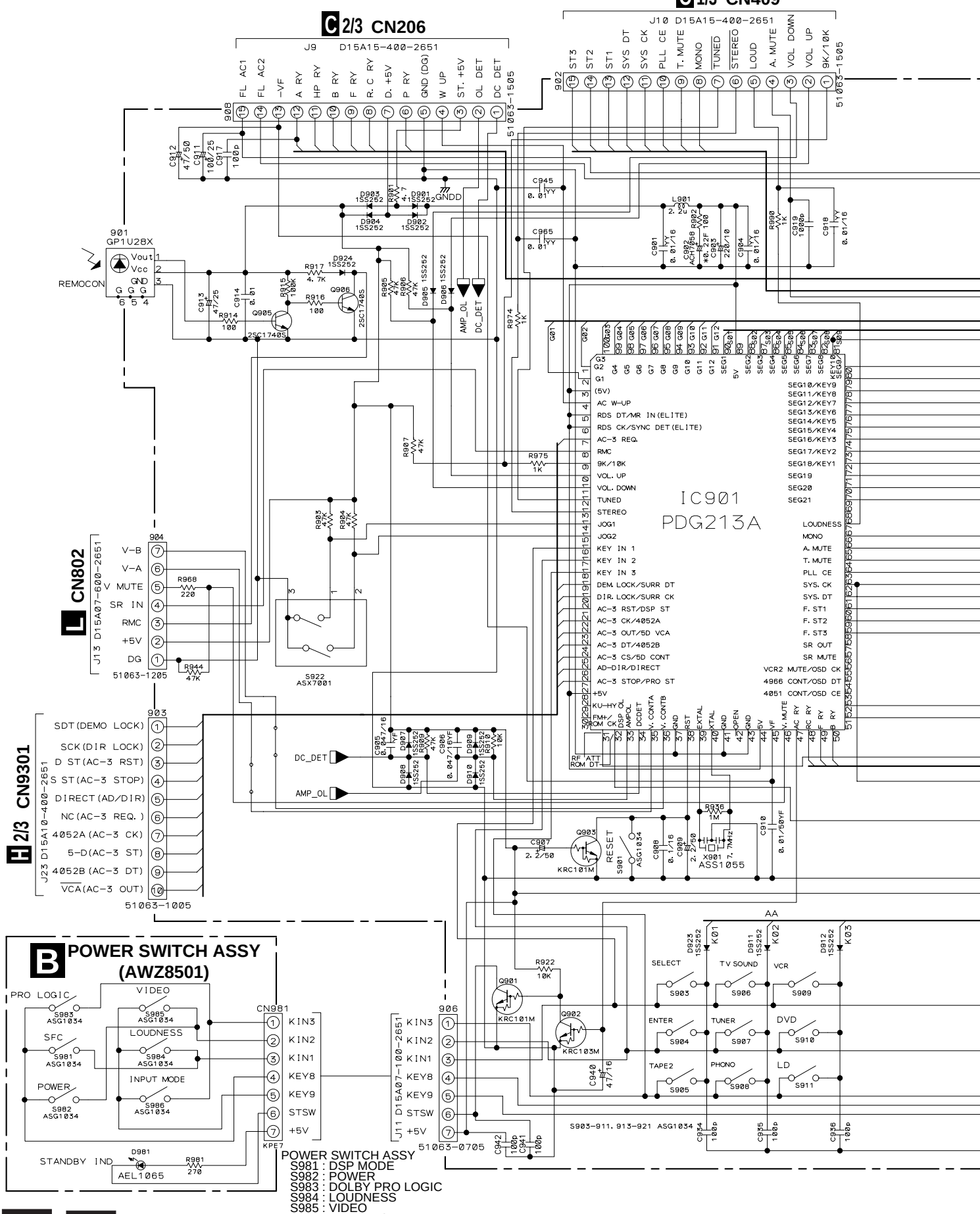
3.1 OVERALL CONNECTION DIAGRAM

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

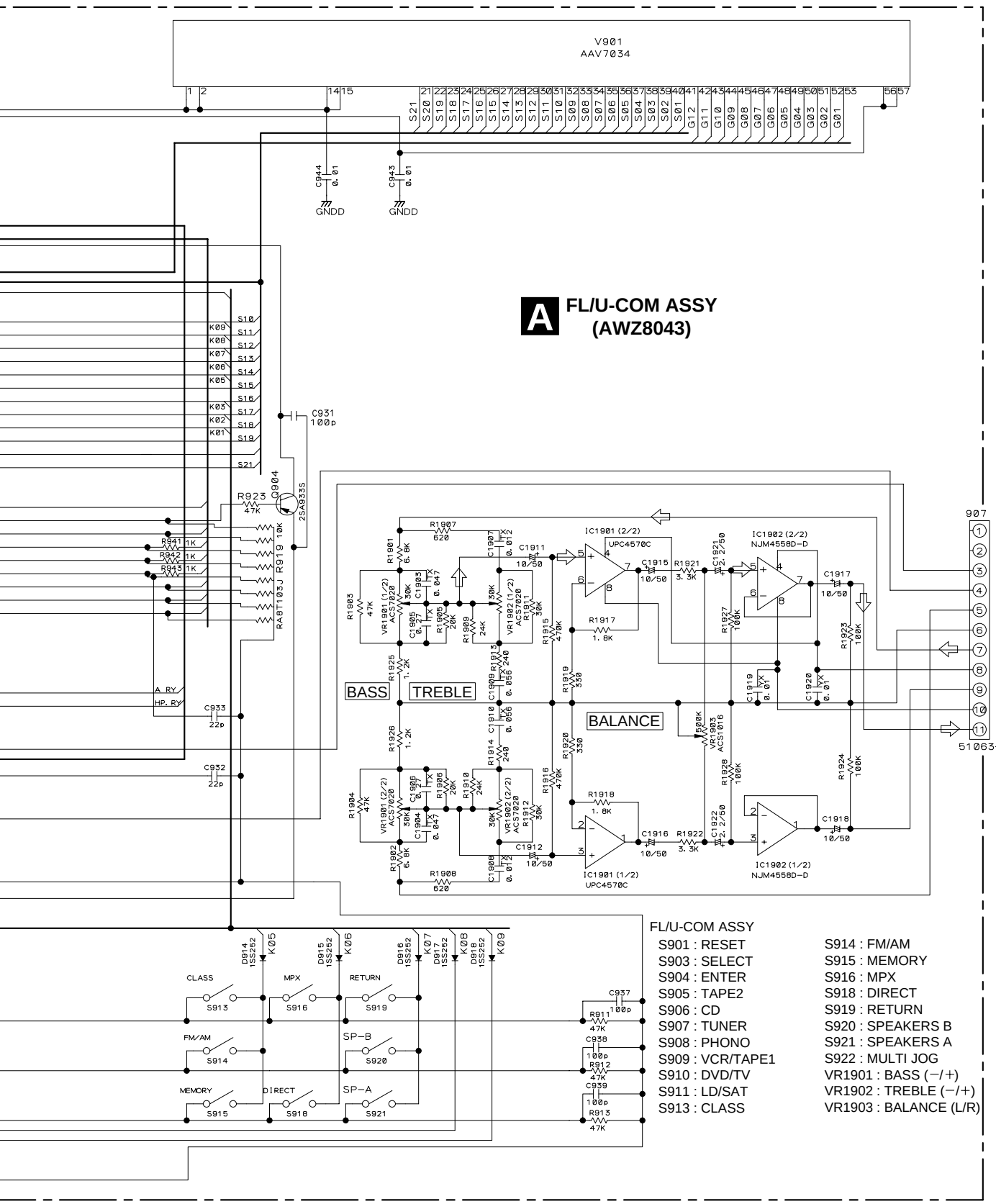



● NOTE FOR FUSE REPLACEMENT
CAUTION – FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.
A
FL/U-COM ASSY
(AWZ8043)
B
POWER SWITCH ASSY
(AWZ8501)
SDXJI ONLY
S1
VOLTAGE
SELECTOR
240V
120–127V
110V
220V
D
TRANS
ASSY
(AWZ8496)
INPUT
ASSY
FU3
REK1077
1.6A 125V
FU4
REK1077
1.6A 125V
FU5
REK1077
1.6A 125V
POWER
TRANSFORMER
T1
ATS7161 (KUXJI,KCXJI)
ATS7163 (SDXJI)
C (C 1/3, C 2/3, C 3/3)
INPUT ASSY
(AWX7148:KUXJI,KCXJI)
(AWX7149:SDXJI)
FL/U-COM ASSY
G
REG.1
ASSY
(AWZ8507)
FU1
REK1085
6.3A 125V
(KUXJI,KCXJI)
REK1064
3.15A 250V
(SDXJI)
FU2
REK1064
3.15A 250V
S2
VOLTAGE
SELECTOR
M
PRIMARY ASSY
(AWZ8865:KUXJI,KCXJI)
(AWZ8866:SDXJI)
AC POWER CORD
KUXJI and KCXJI :
PDG1015
AC120V 60Hz
SDXJI : ADG1157
AC110V/120-127V/220V/240V
50/60HZ
LIVE
NEUTRAL
INPUT ASSY
FRONT SP

3.2 FL/U-COM AND POWER SWITCH ASSEMBLIES



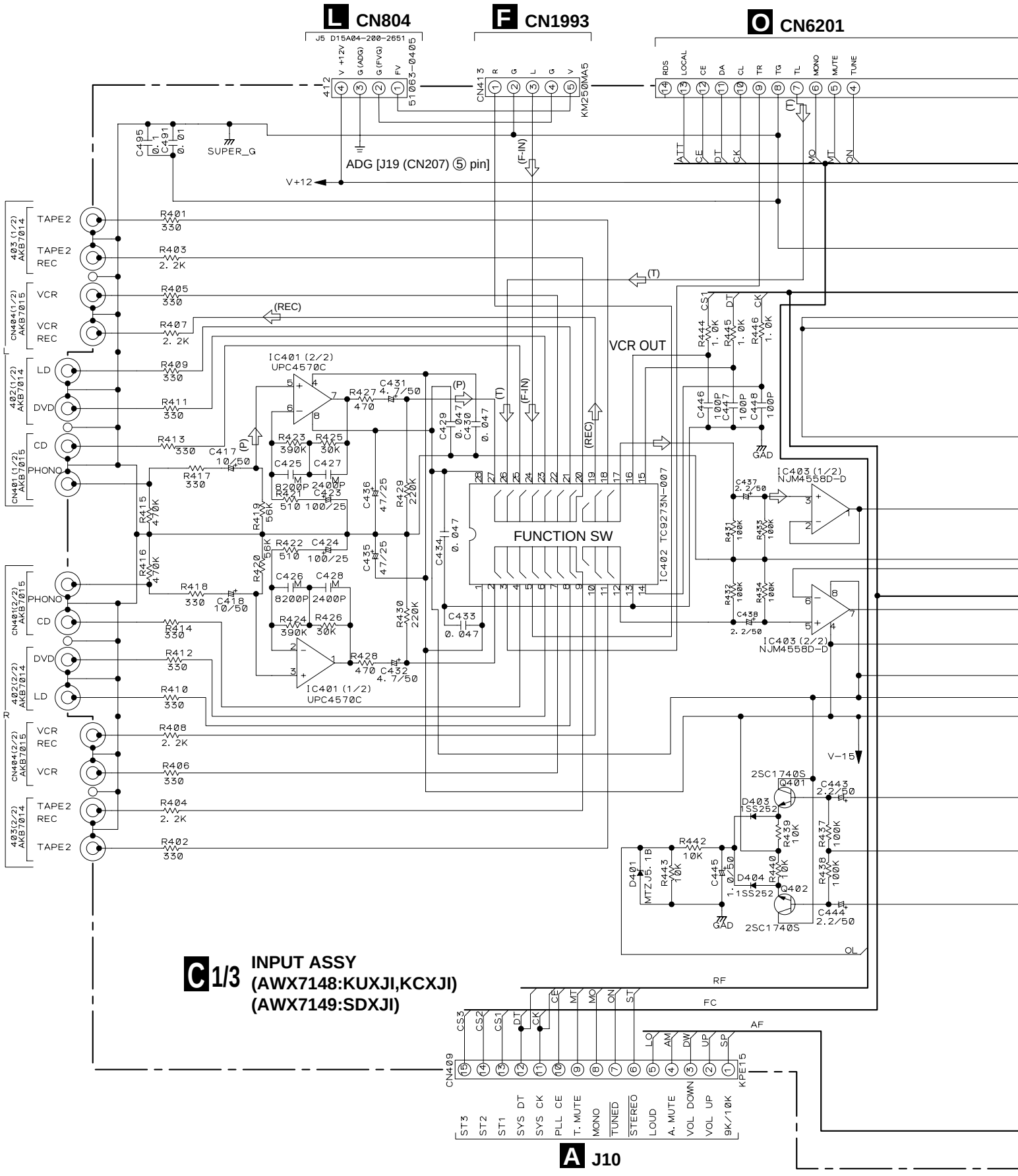
: AUDIO SIGNAL ROUTE



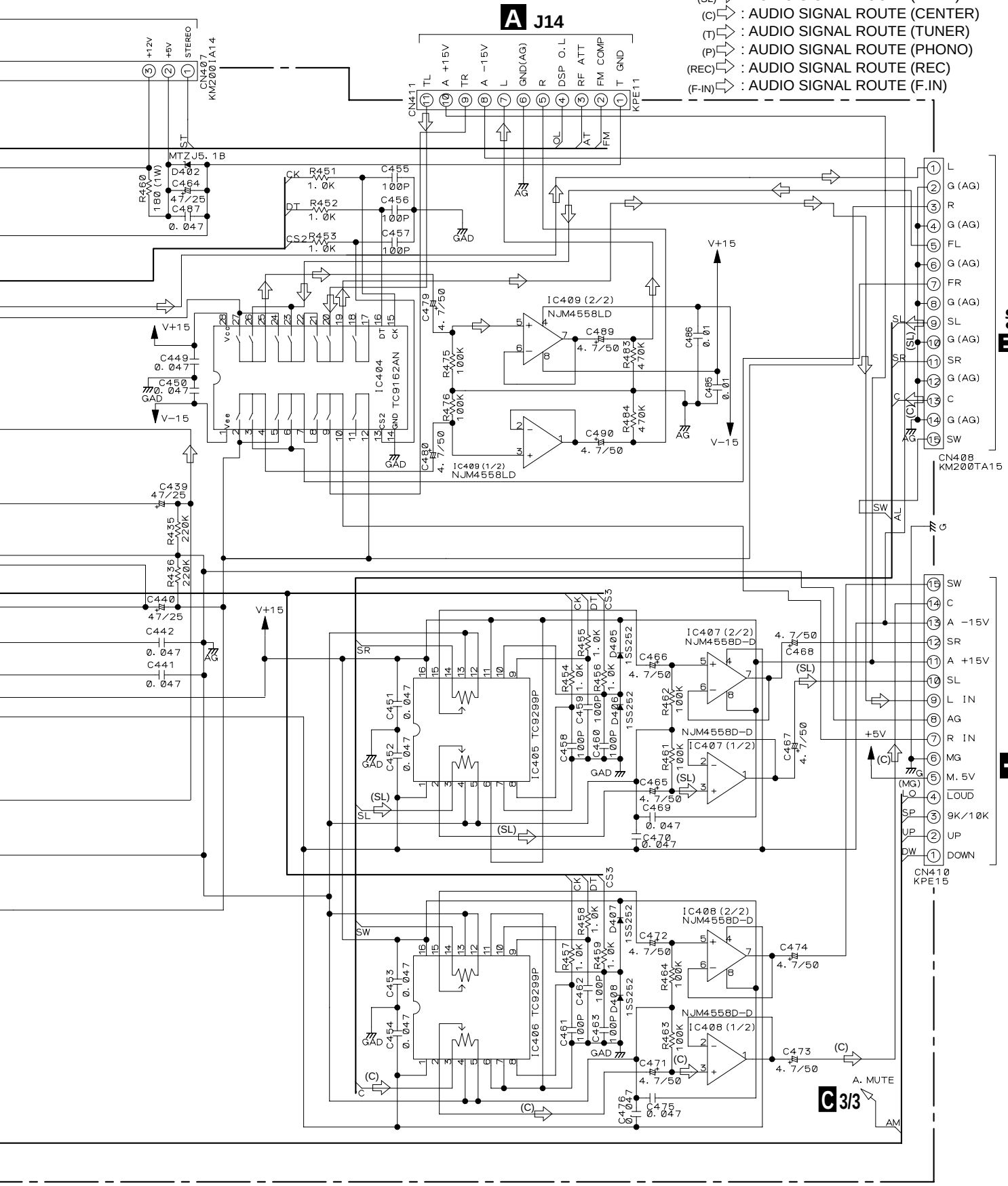
FL/U-COM ASSY

S901 : RESET
S903 : SELECT
S904 : ENTER
S905 : TAPE2
S906 : CD
S907 : TUNER
S908 : PHONO
S909 : VCR/TAPE1
S910 : DVD/TV
S911 : LD/SAT
S913 : CLASS
S914 : FM/AM
S915 : MEMORY
S916 : MPX
S918 : DIRECT
S919 : RETURN
S920 : SPEAKERS B
S921 : SPEAKERS A
S922 : MULTI JOG
VR1901 : BASS (−/+)
VR1902 : TREBLE (−/+)
VR1903 : BALANCE (L/R)

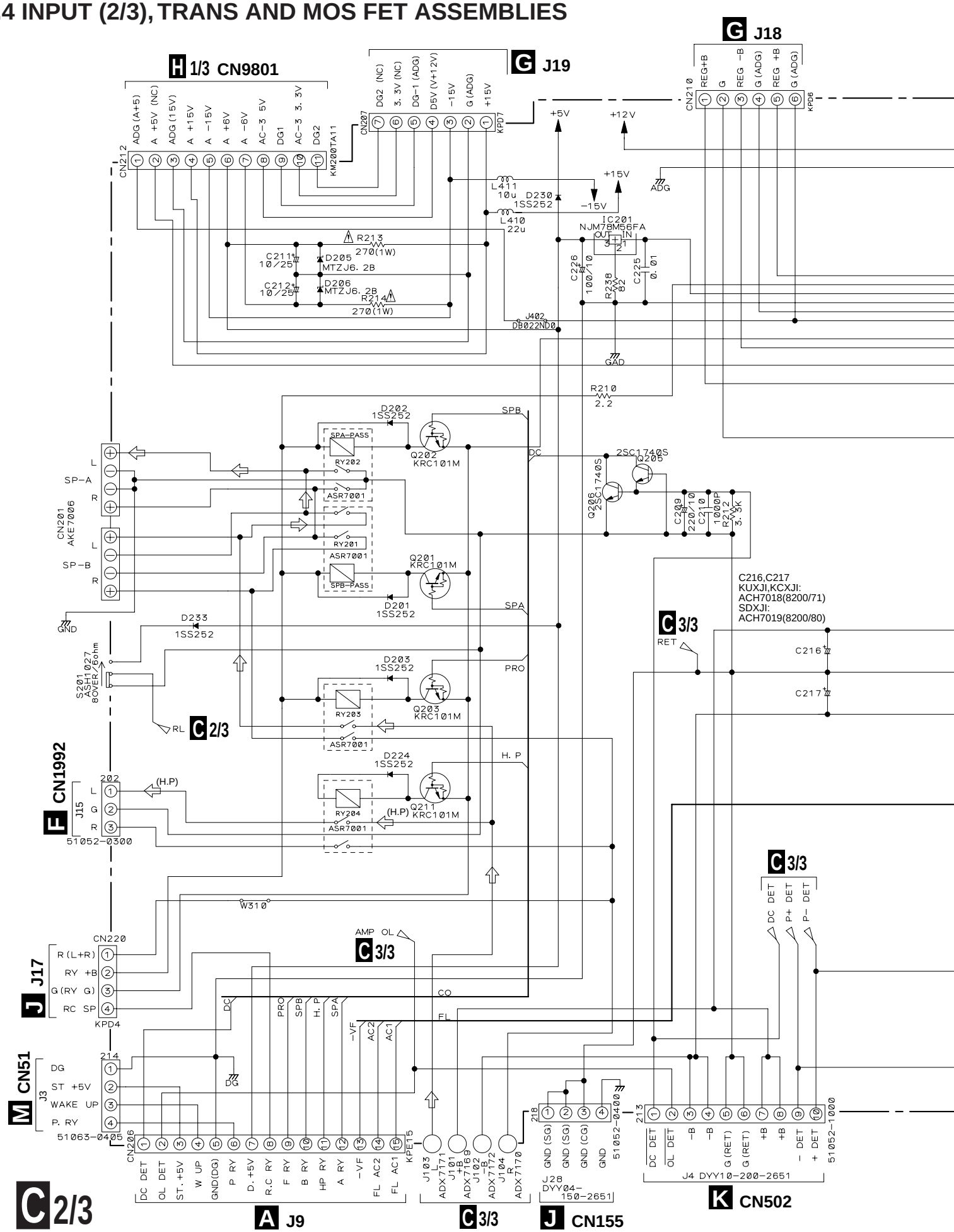
3.3 INPUT ASSY (1/3)

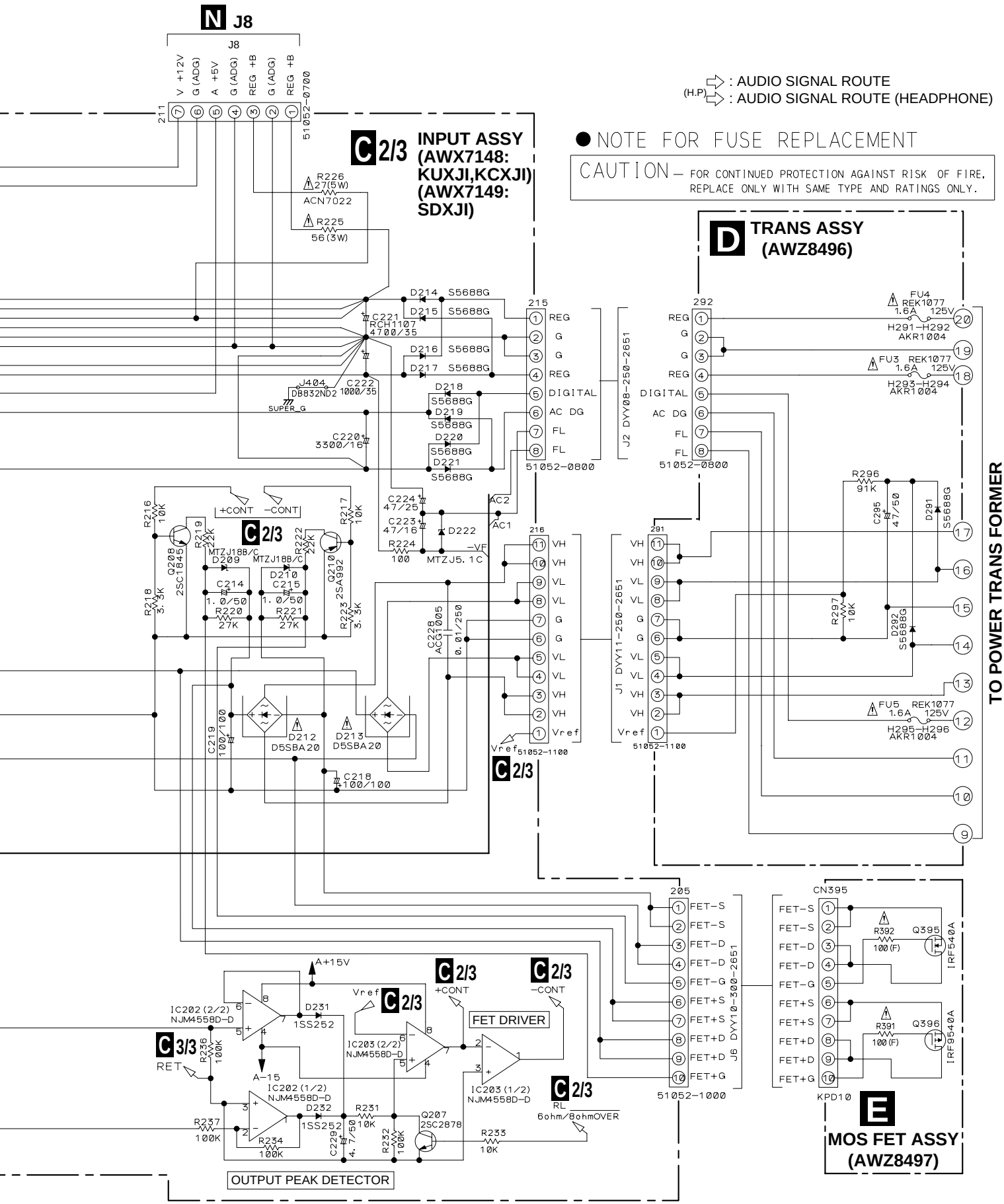


: AUDIO SIGNAL ROUTE
(SL) : AUDIO SIGNAL ROUTE (REAR)
(C) : AUDIO SIGNAL ROUTE (CENTER)
(T) : AUDIO SIGNAL ROUTE (TUNER)
(P) : AUDIO SIGNAL ROUTE (PHONO)
(REC) : AUDIO SIGNAL ROUTE (REC)
(F-IN) : AUDIO SIGNAL ROUTE (F.IN)

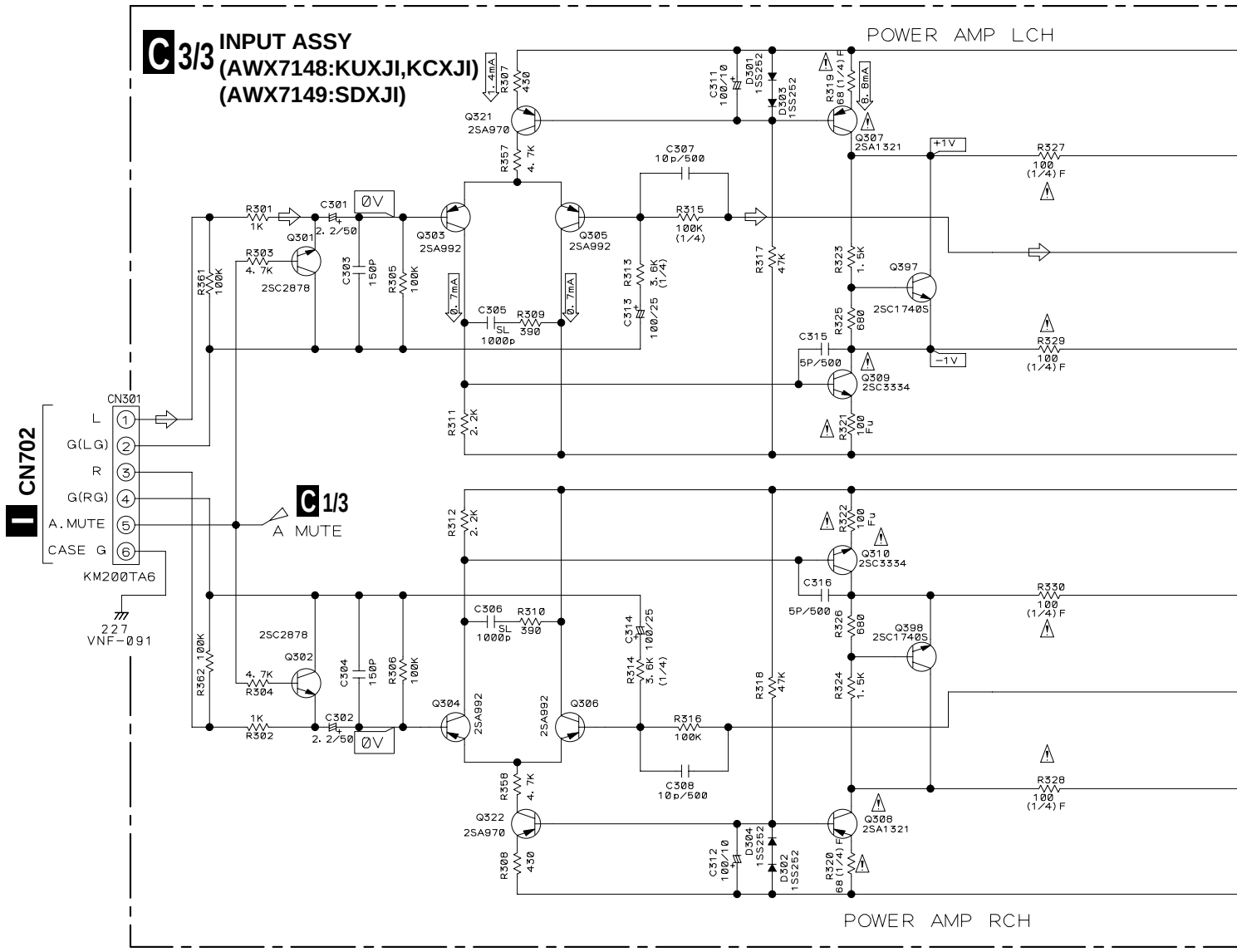


3.4 INPUT (2/3), TRANS AND MOS FET ASSEMBLIES

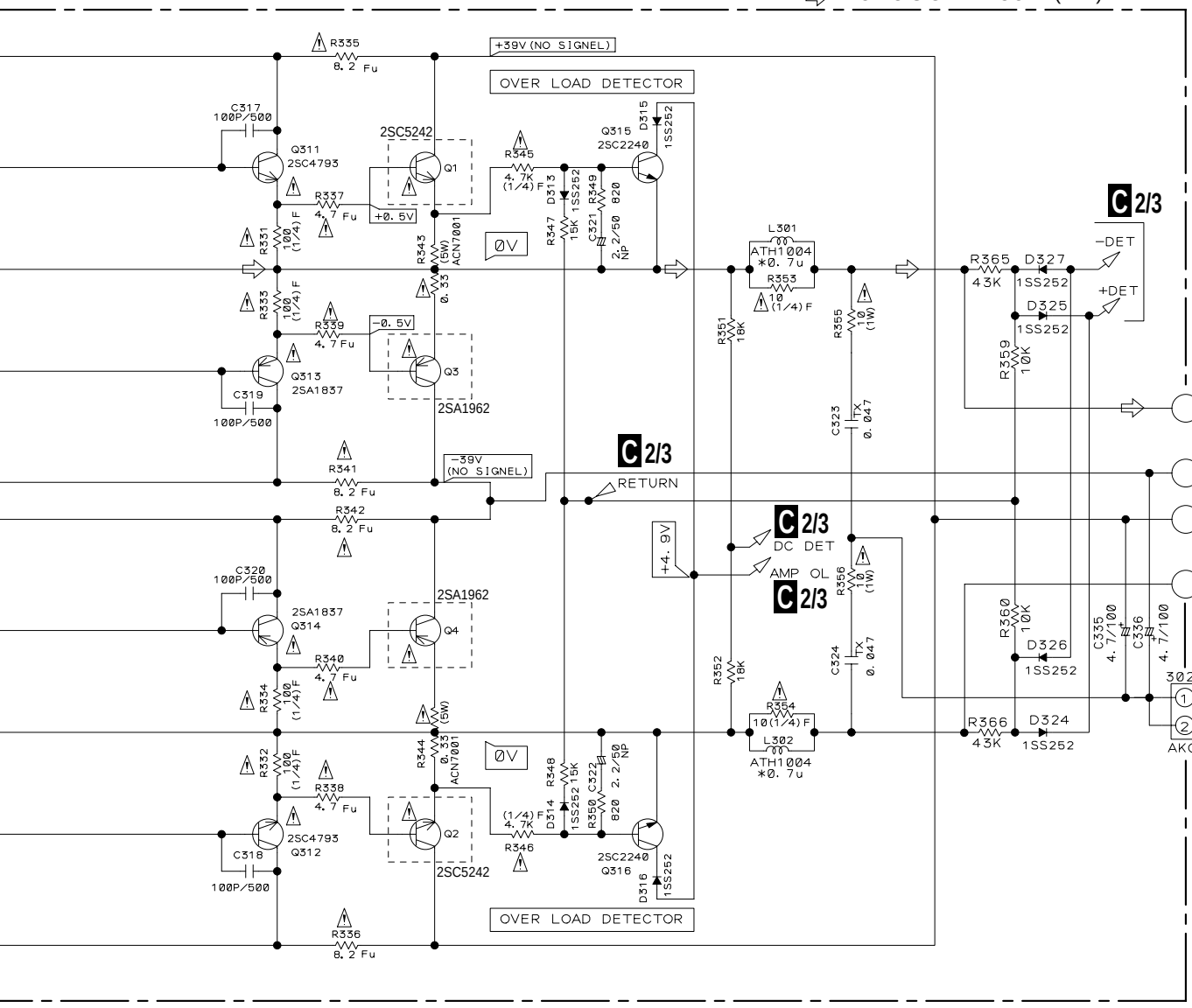


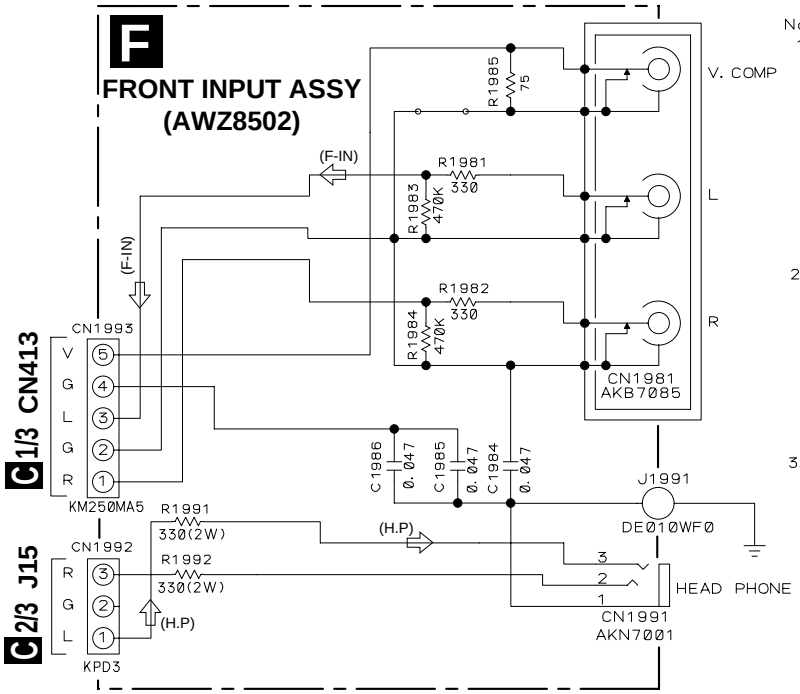

N J8
J8
V +12V
G (ADG)
A +5V
G (ADG)
REG +B
G (ADG)
REG +B
211
51052-0700
: AUDIO SIGNAL ROUTE
(H.P) : AUDIO SIGNAL ROUTE (HEADPHONE)
C 2/3 INPUT ASSY (AWX7148: KUXJI,KCXJI) (AWX7149: SDXJI)
● NOTE FOR FUSE REPLACEMENT
CAUTION – FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.
D TRANS ASSY (AWZ8496)
TO POWER TRANS FORMER
R226 27(5W) ACN7022
R225 56(3W)
D214 S5688G
D215 S5688G
D216 S5688G
D217 S5688G
D218 S5688G
D219 S5688G
D220 S5688G
D221 S5688G
C221 RCH1107 4700/35
C222 1000/35
C220 3300/15
J404 DB832ND2
SUPER_G
215
REG
G
G
REG
DIGITAL
AC DG
FL
FL
51052-0800
J2 DYY08-250-2651
292
FU4 REK1077 1.6A 125V H291-H292 AKR1004
FU3 REK1077 1.6A 125V H293-H294 AKR1004
FU5 REK1077 1.6A 125V H295-H296 AKR1004
R296 91K
C295 47/50
D291 S5688G
R297 10K
D292 S5688G
C224 47/25
C223 47/16
D222
R224 100
MTZJ5.1C
AC2
AC1
216
VH
VH
VL
VL
G
G
VL
VL
VH
VH
Vref
51052-1100
J1 DYY11-250-2651
291
C228 ACG1005 0.01/250
R216 10K
R217 10K
R218 3.3K
R219 22K
R222 22K
R223 3.3K
Q208 2SC1845
Q210 2SA992
+CONT
-CONT
C 2/3
MTZJ18B/C D209
MTZJ18B/C D210
C214 1.0/50
C215 1.0/50
R220 27K
R221 27K
D212 D5SBA20
D213 D5SBA20
C219 100/100
C218 100/100
205
FET-S
FET-S
FET-D
FET-D
FET-G
FET+S
FET+S
FET+D
FET+D
FET+G
J6 DYY10-300-2651
51052-1000
CN395
R392 100(F) Q395 IRF540A
R391 100(F) Q396 IRF9540A
KPD10
E MOS FET ASSY (AWZ8497)
A+15V
C 2/3 +CONT
C 2/3 -CONT
FET DRIVER
Vref
IC202(2/2) NJM4558D-D
IC203(2/2) NJM4558D-D
IC203(1/2) NJM4558D-D
IC202(1/2) NJM4558D-D
D231 1SS252
D232 1SS252
R231 10K
R233 10K
R234 100K
R236 100K
R237 100K
R232 100K
C229 4.7/50
Q207 2SC2878
C 3/3 RET
A-15
C 2/3 RL 6ohm/8ohmOVER
OUTPUT PEAK DETECTOR

3.5 INPUT (3/3), FRONT INPUT AND REG.1 ASSEMBLIES



: AUDIO SIGNAL ROUTE
(H.P) : AUDIO SIGNAL ROUTE (HEADPHONE)
(F-IN) : AUDIO SIGNAL ROUTE (F.IN)





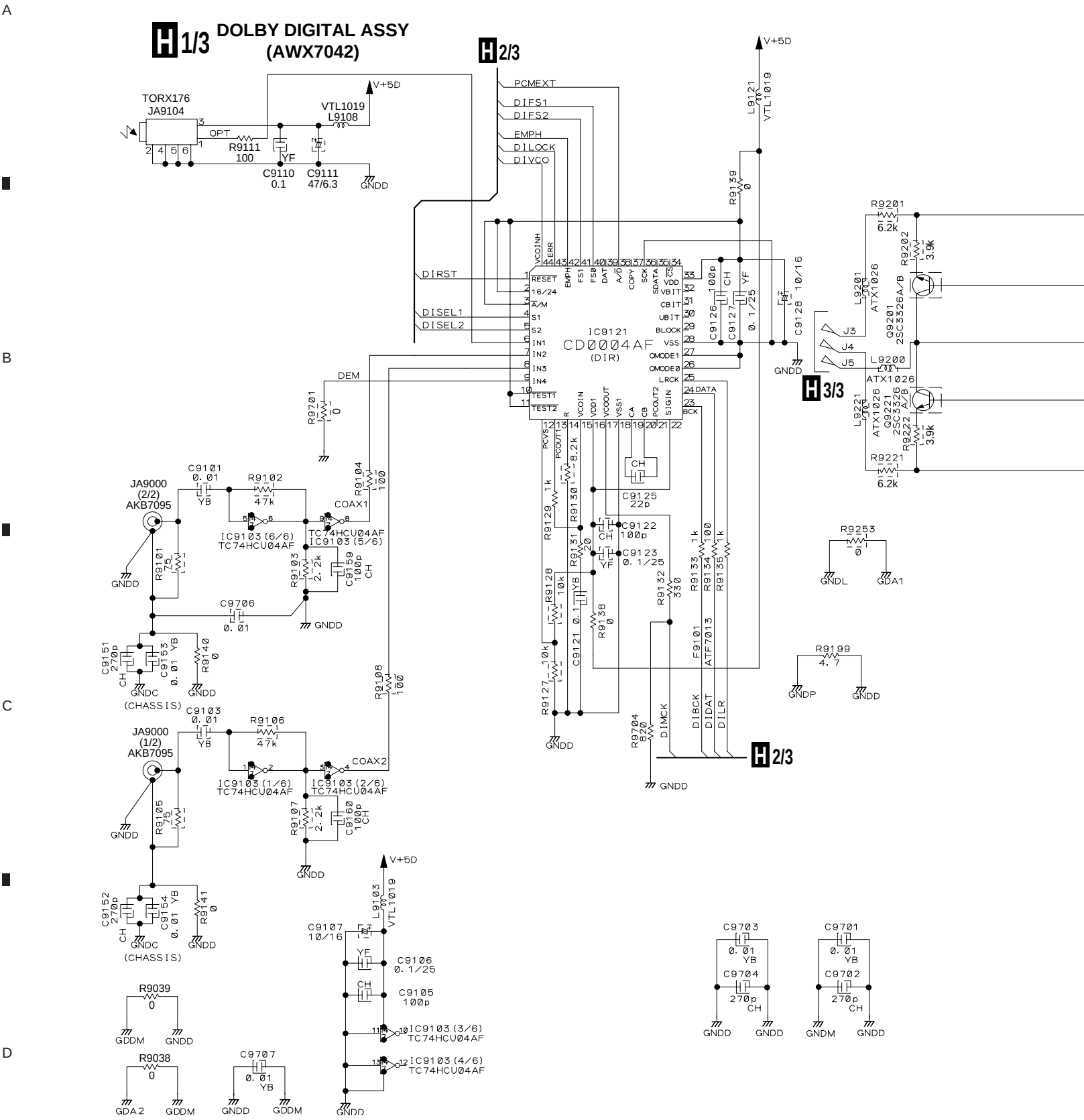
Noted

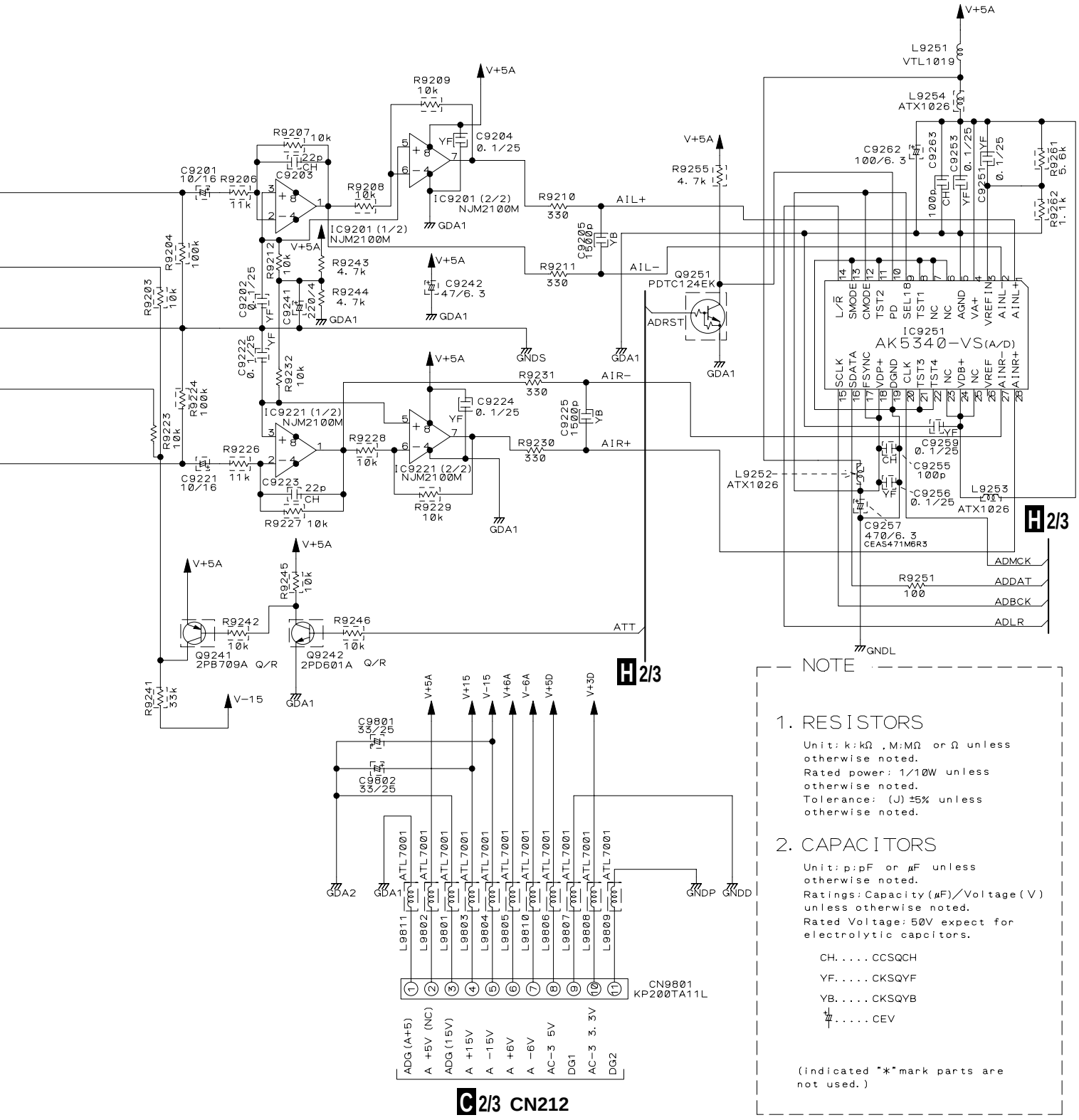
1.Resistors
Indicated in ohm 1/4W
tolerance ±5%
unless otherwise noted
K:Kohm , M:Mohm
F : Non flammable type
Fu: Non flammable quick open type
FL: Non flammable type
(RD1/4LMF***J type)

2.Capacitors
Indicated in capacity(uF)/voltege(V)
unless otherwise noted
p=pF
Indication without voltae is 50V
except
electroiytic capacitor
NL=CEANL⁻, TX=CFTXA⁻

3.Diodes
Other diodes(not noted) are 1SS252

3.6 DOLBY DIGITAL ASSY (1/3)





NOTE

1. RESISTORS

Unit: k:kΩ ,M:MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2. CAPACITORS

Unit: p:pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.

CH. . . . . CCSQCH
YF. . . . . CKSQYF
YB. . . . . CKSQYB
. . . . . CEV

(indicated "*" mark parts are not used.)

3.7 DOLBY DIGITAL ASSY (2/3)

H 2/3 DOLBY DIGITAL ASSY (AWX7042)

H 1/3

H 3/3

NOTE

1. RESISTORS

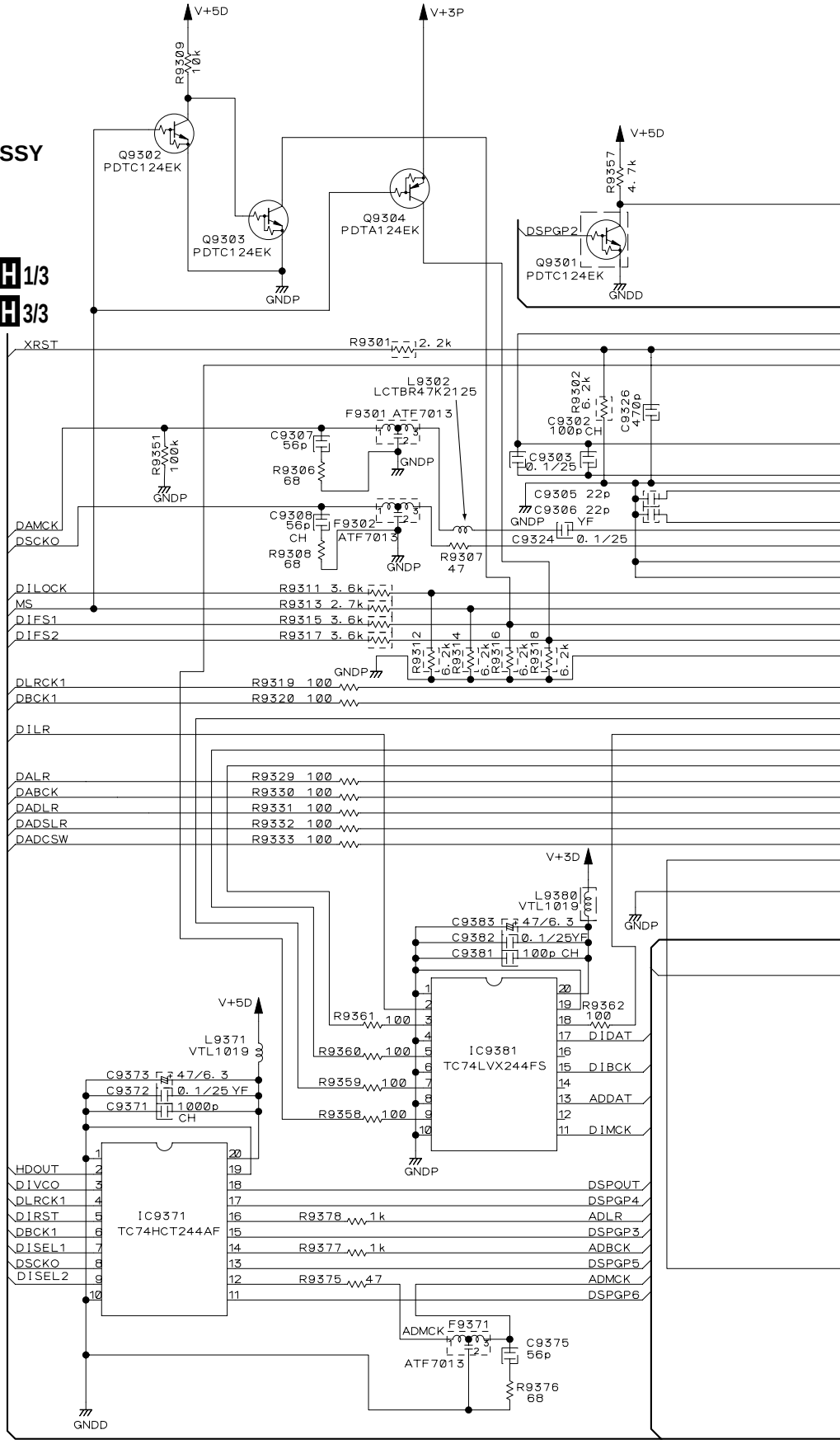
Unit: k:kΩ , M:MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

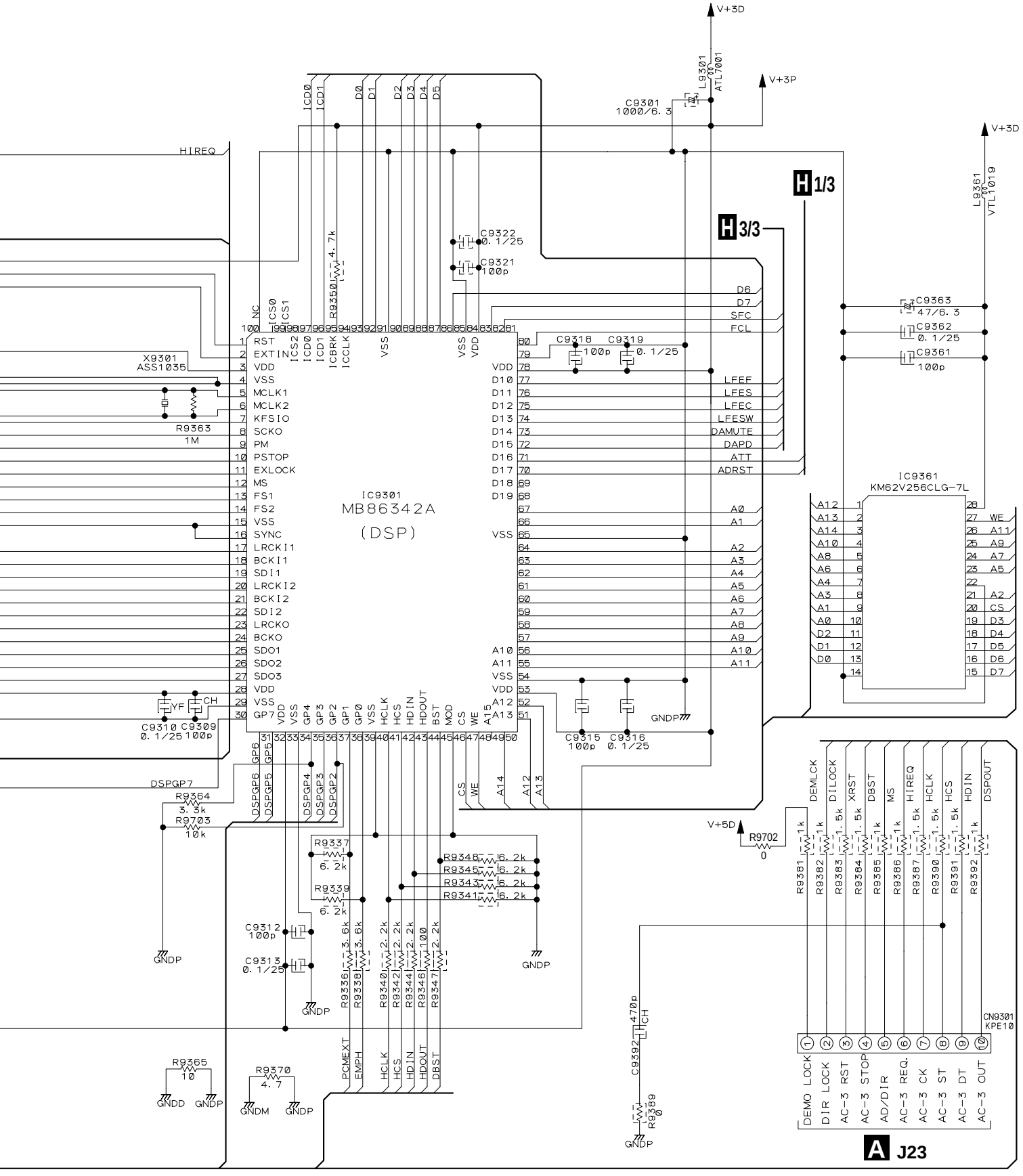
2. CAPACITORS

Unit: p:pF or μF unless otherwise noted.
Ratings: Capacity (μF)/Voltage (V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.

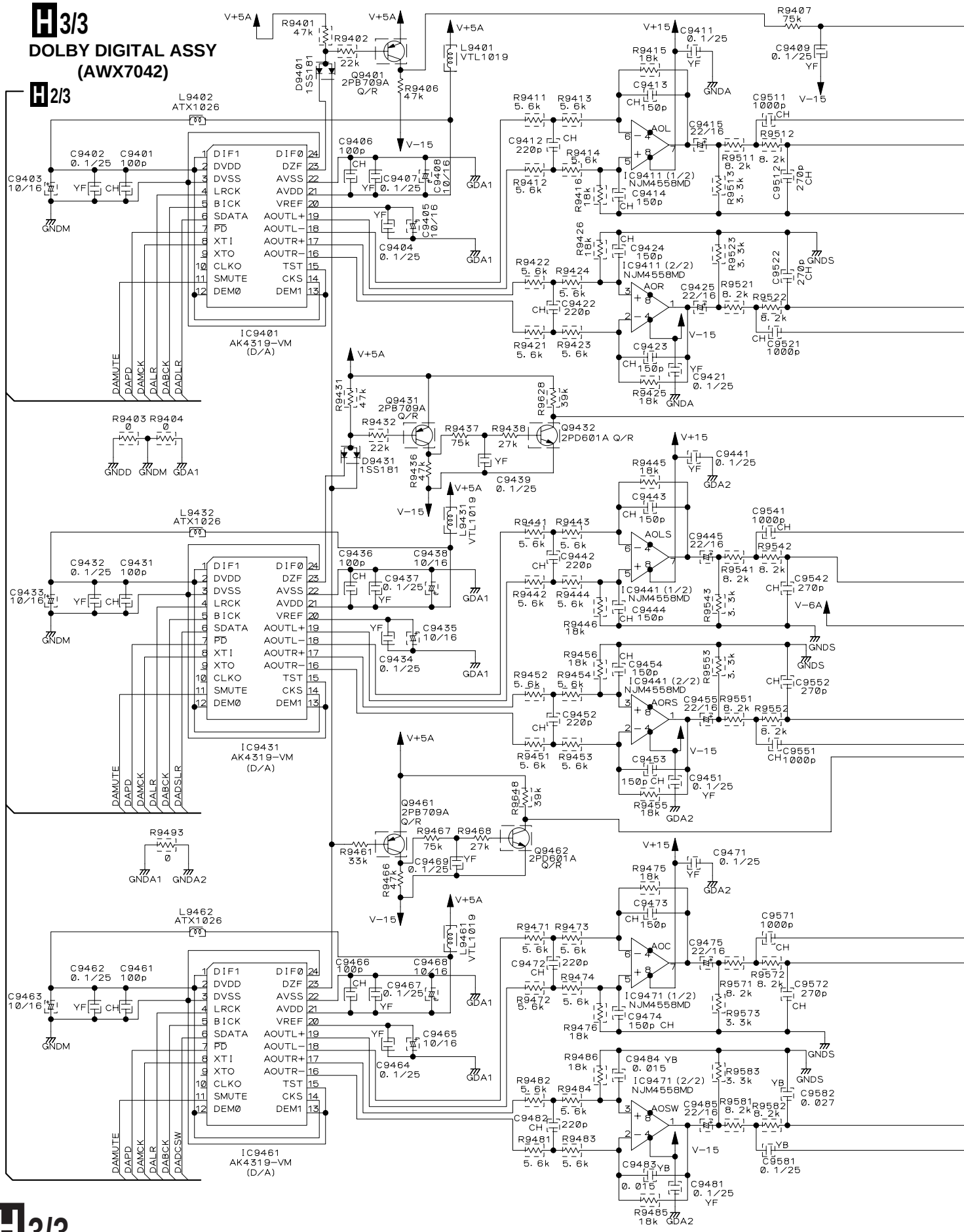
CH. . . . . CCSQCH
YF. . . . . CKSQYF
YB. . . . . CKSQYB
NP. . . . . CEANP
*. . . . . CEV

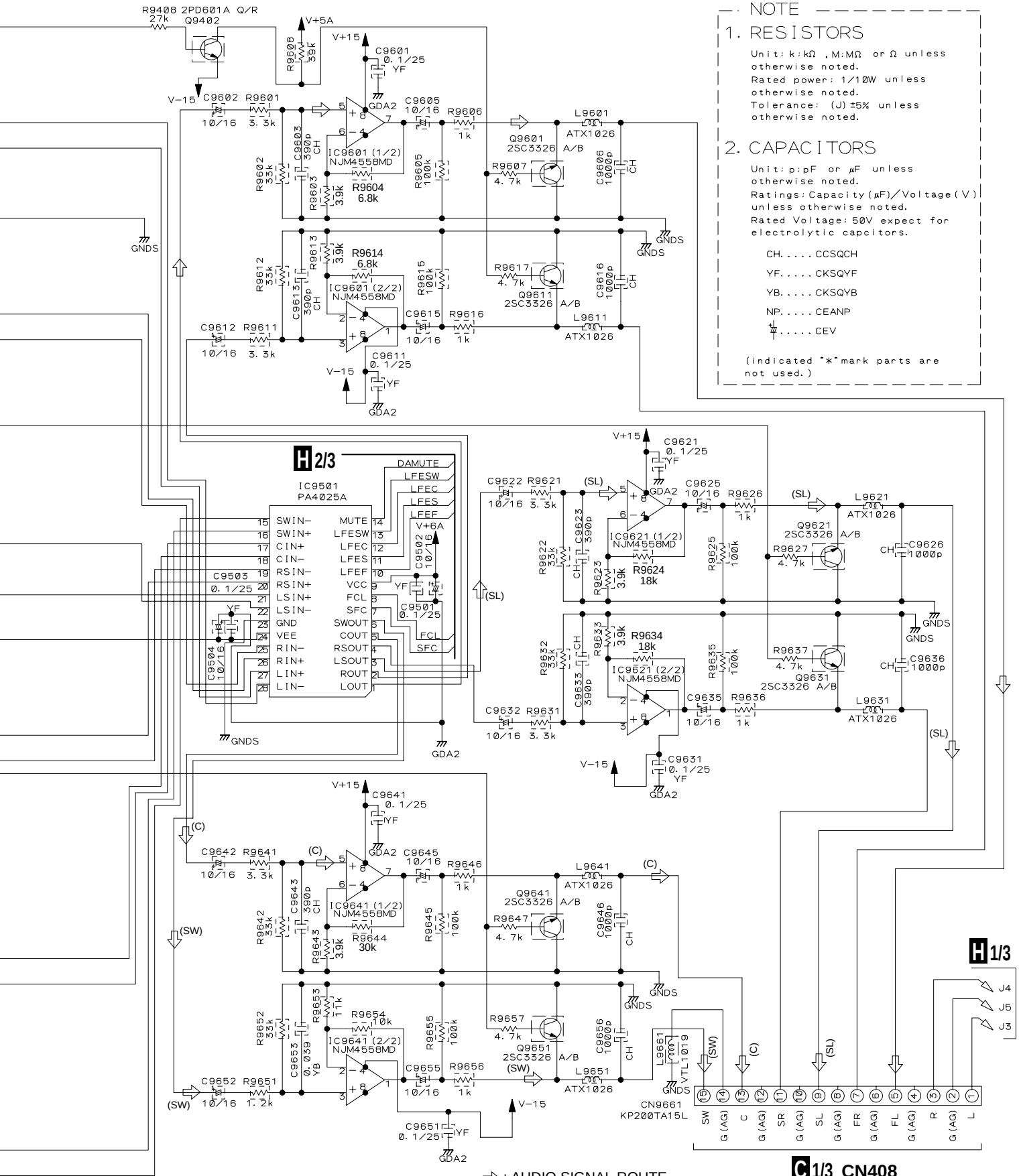
(indicated "*" mark parts are not used.)



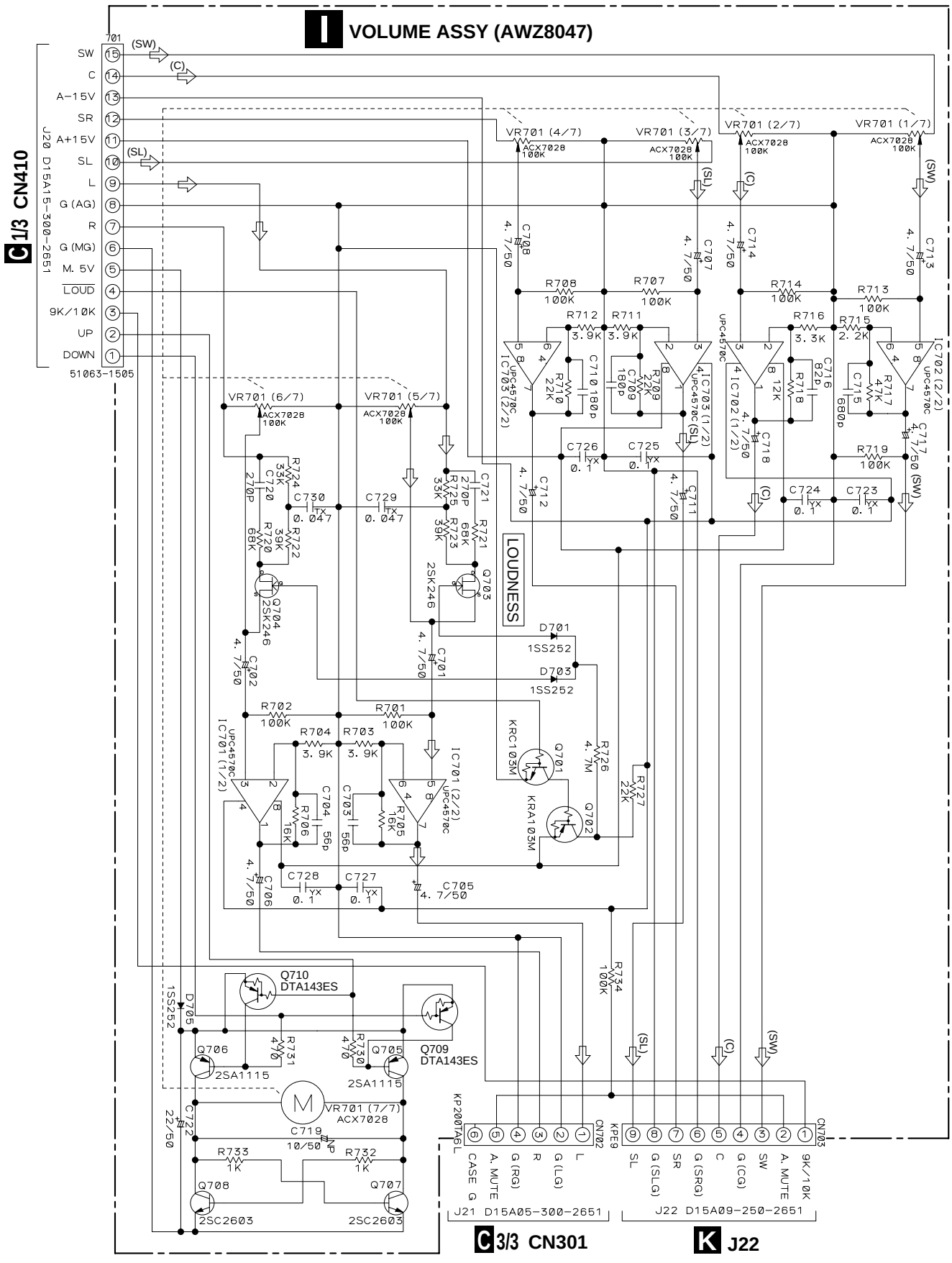

IC9301
MB86342A
(DSP)
IC9361
KM62V256CLG-7L
H1/3
H3/3
H2/3
A J23
V+3D
V+3P
V+5D
GNDP
GNDD
GNDM
HIREQ
X9301
ASS1035
R9363
1M
C9310 0.1/25
C9309 100p
C9322 0.1/25
C9321 100p
C9301 1000/6.3
L9301 ATL7001
L9361 VTL1019
C9363 47/6.3
C9362 0.1/25
C9361 100p
C9318 100p
C9319 0.1/25
C9315 100p
C9316 0.1/25
R9350 4.7k
R9364 3.3k
R9703 10k
R9702 0
R9337 6.2k
R9339 6.2k
R9348 6.2k
R9345 6.2k
R9343 6.2k
R9341 6.2k
C9312 100p
C9313 0.1/25
R9365 10
R9370 4.7
C9392 470p CH
R9389 0
CN9301 KPE10
DEMO LOCK
DIR LOCK
AC-3 RST
AC-3 STOP
AD/DIR
AC-3 REQ.
AC-3 CK
AC-3 ST
AC-3 DT
AC-3 OUT

3.8 DOLBY DIGITAL ASSY (3/3)



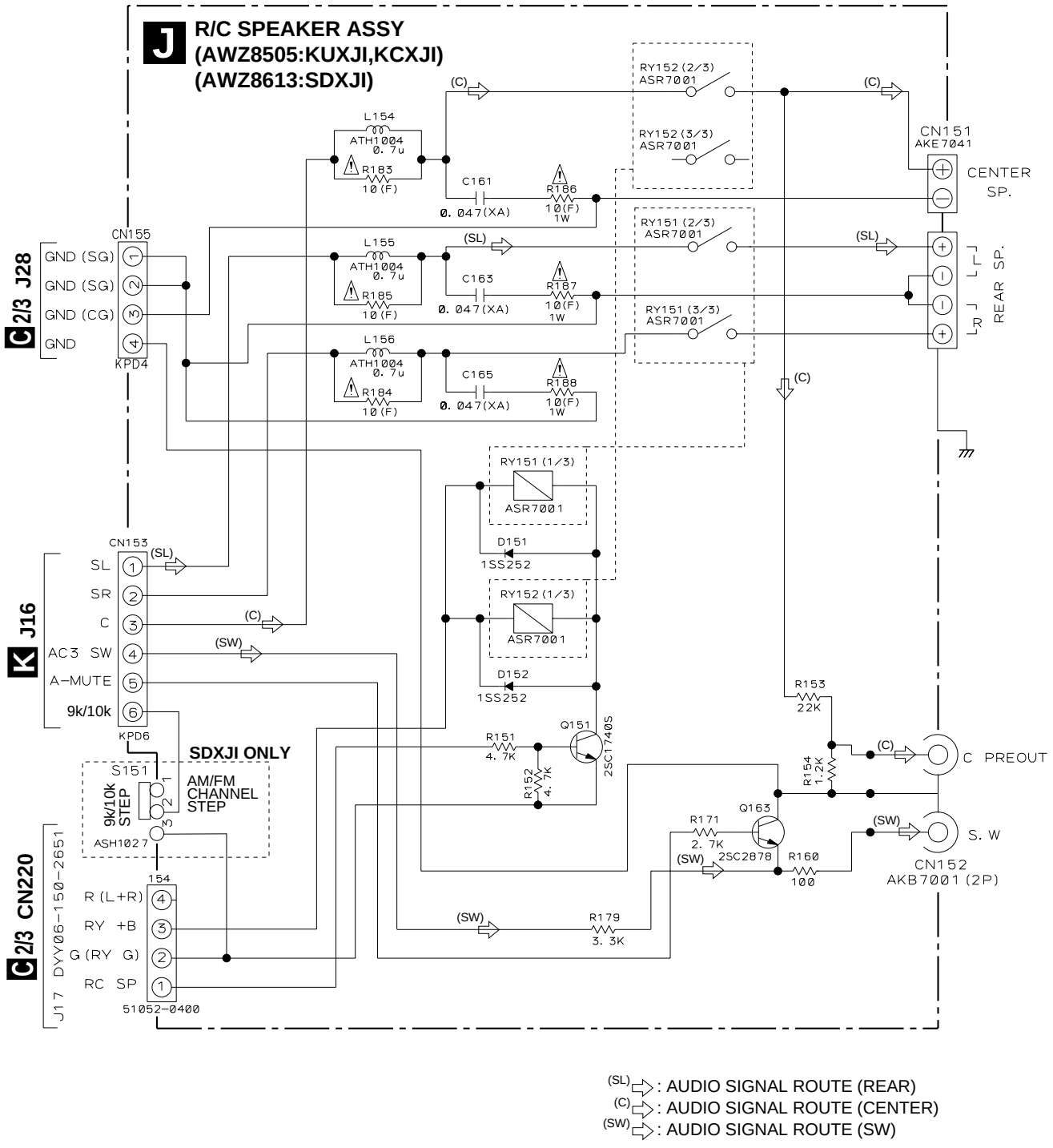

NOTE
1. RESISTORS
Unit: kΩ, MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
Unit: p;pF or μF unless otherwise noted.
Ratings: Capacity (μF)/Voltage (V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.
CH.....CCSQCH
YF.....CKSQYF
YB.....CKSQYB
NP.....CEANP
▽.....CEV
(indicated "*" mark parts are not used.)
H 2/3
IC9501 PA4025A
SWIN− SWIN+ CIN+ CIN− RSIN− RSIN+ LSIN+ LSIN− GND VEE RIN− RIN+ LIN+ LIN−
MUTE LFESW LFEC LFES LFEF VCC FCL SFC SWOUT COUT RSOUT LSOUT ROUT LOUT
DAMUTE LFESW LFEC LFES LFEF FCL SFC
IC9601 (1/2) NJM4558MD
IC9601 (2/2) NJM4558MD
IC9621 (1/2) NJM4558MD
IC9621 (2/2) NJM4558MD
IC9641 (1/2) NJM4558MD
IC9641 (2/2) NJM4558MD
Q9601 2SC3326 A/B
Q9611 2SC3326 A/B
Q9621 2SC3326 A/B
Q9631 2SC3326 A/B
Q9641 2SC3326 A/B
Q9651 2SC3326 A/B
R9408 2PD601A Q/R
Q9402
V+5A
V+15
V−15
V+6A
GDA2
GNDS
L9601 ATX1026
L9611 ATX1026
L9621 ATX1026
L9631 ATX1026
L9641 ATX1026
L9651 ATX1026
L9661 VTL1019
R9604 6.8k
R9614 6.8k
R9624 18k
R9634 18k
R9644 30k
R9654 10k
CN9661 KP200TA15L
SW G(AG) C G(AG) SR G(AG) SL G(AG) FR G(AG) FL G(AG) R G(AG) L
C 1/3 CN408
H 1/3
J4 J5 J3
: AUDIO SIGNAL ROUTE
(SL): AUDIO SIGNAL ROUTE (REAR)
(C): AUDIO SIGNAL ROUTE (CENTER)
(SW): AUDIO SIGNAL ROUTE (SW)

3.9 VOLUME ASSY

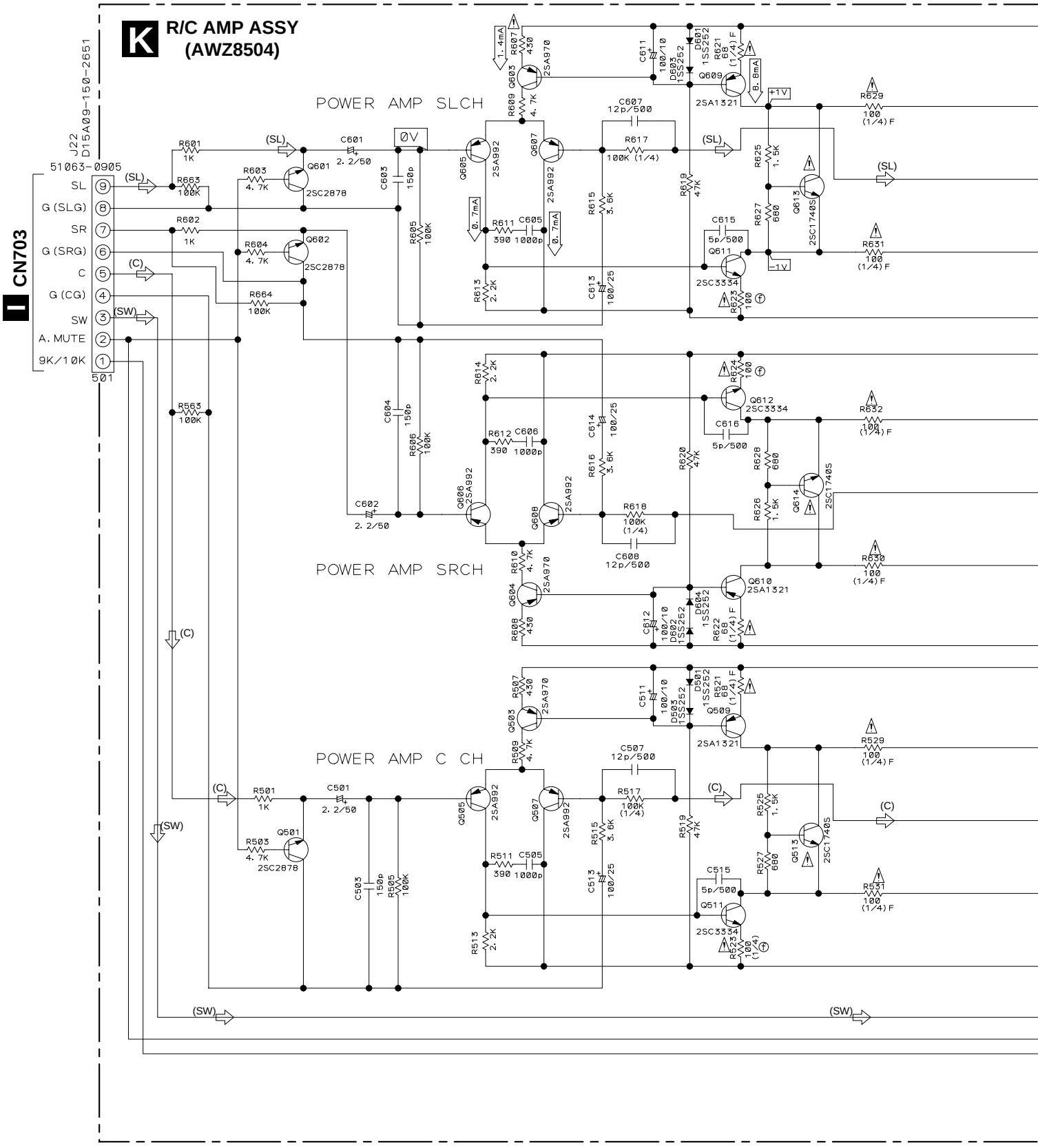


⇨: AUDIO SIGNAL ROUTE
(SL)⇨: AUDIO SIGNAL ROUTE (REAR)
(C)⇨: AUDIO SIGNAL ROUTE (CENTER)
(SW)⇨: AUDIO SIGNAL ROUTE (SW)

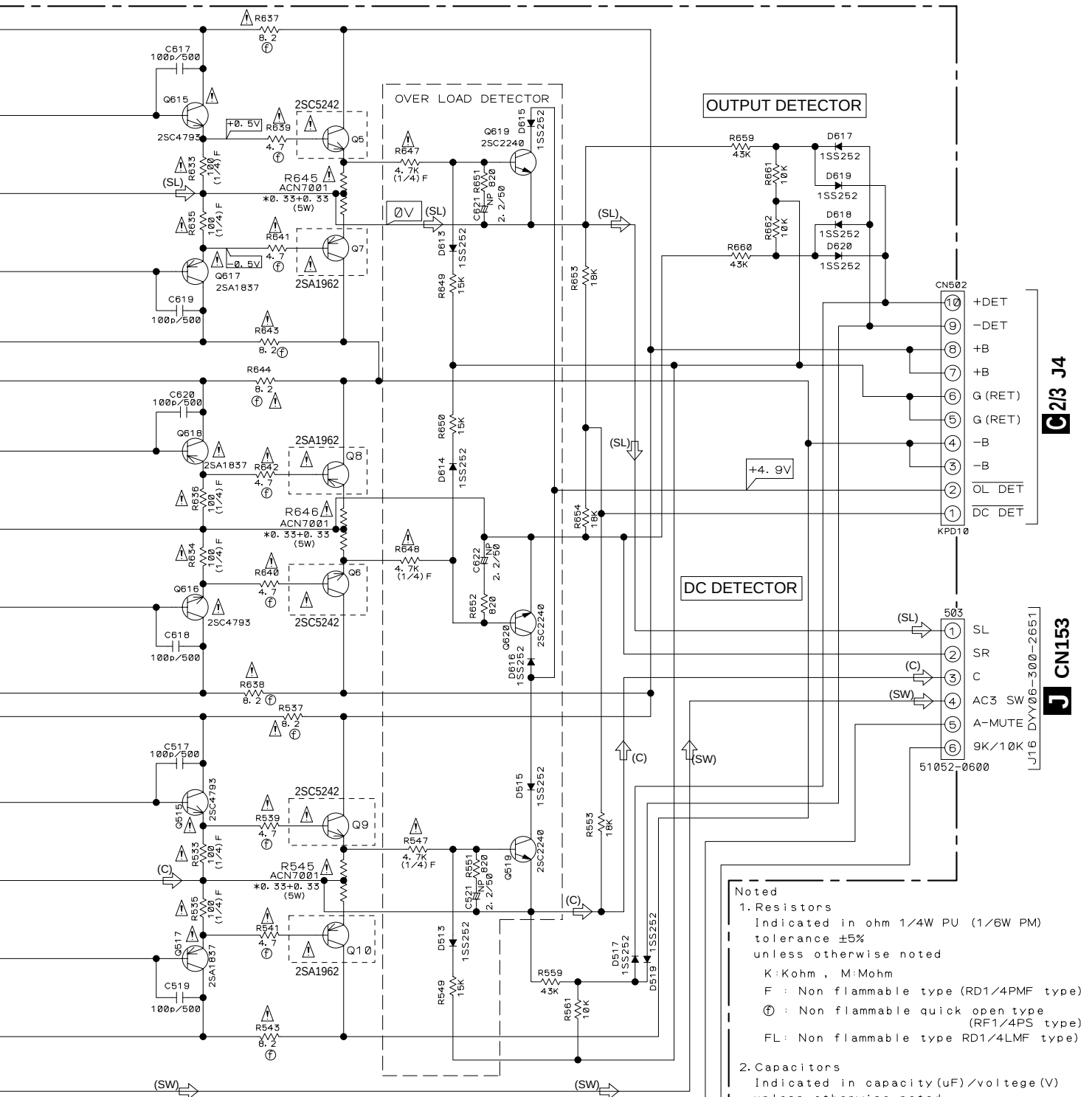
3.10 R/C SPEAKER ASSY



3.11 R/C AMP ASSY



(SL) : AUDIO SIGNAL ROUTE (REAR)
(C) : AUDIO SIGNAL ROUTE (CENTER)
(SW) : AUDIO SIGNAL ROUTE (SW)



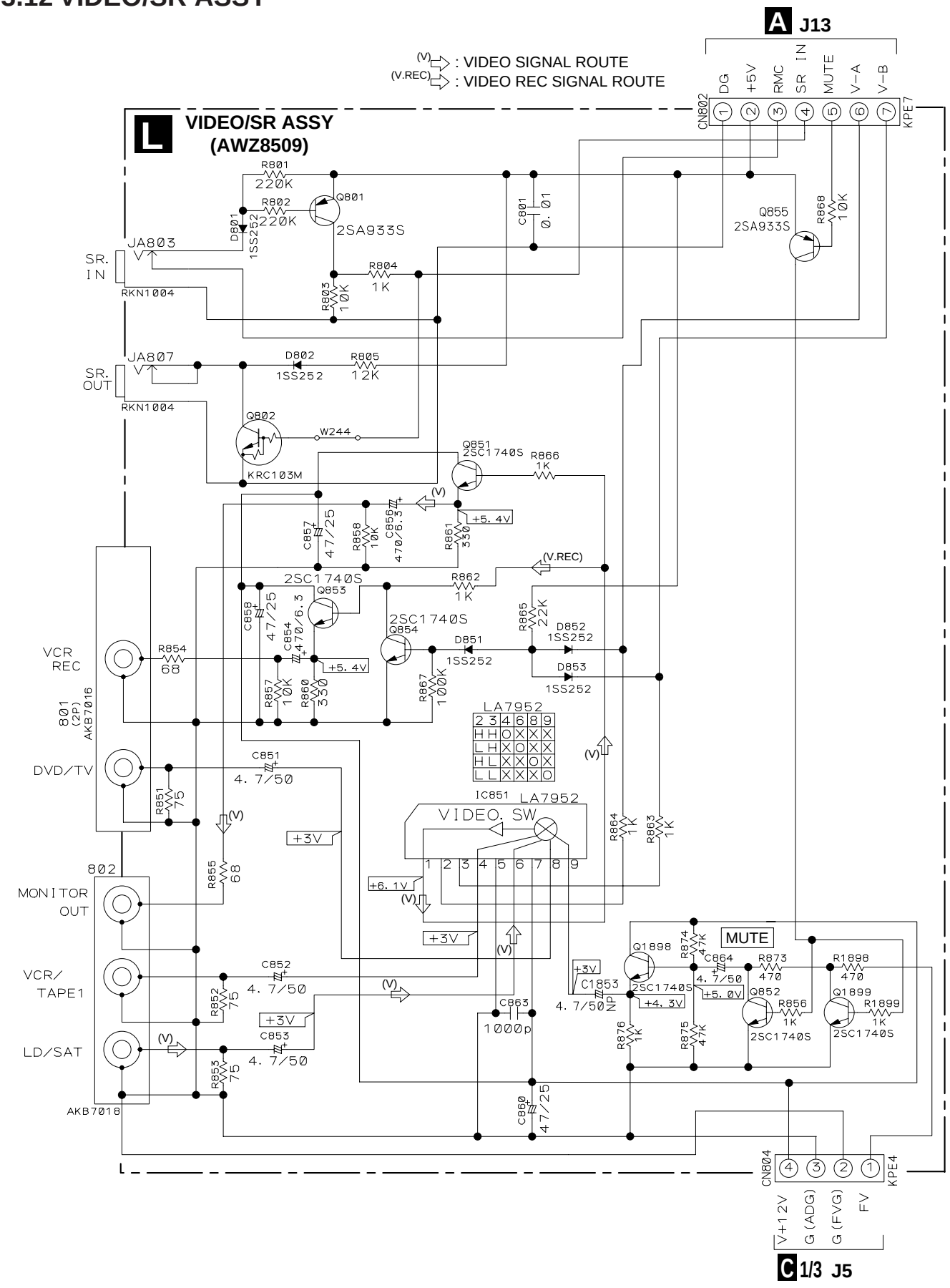
Noted

1. Resistors
   Indicated in ohm 1/4W PU (1/6W PM)
   tolerance ±5%
   unless otherwise noted
   K:Kohm , M:Mohm
   F : Non flammable type (RD1/4PMF type)
   ⓕ : Non flammable quick open type (RF1/4PS type)
   FL: Non flammable type RD1/4LMF type)

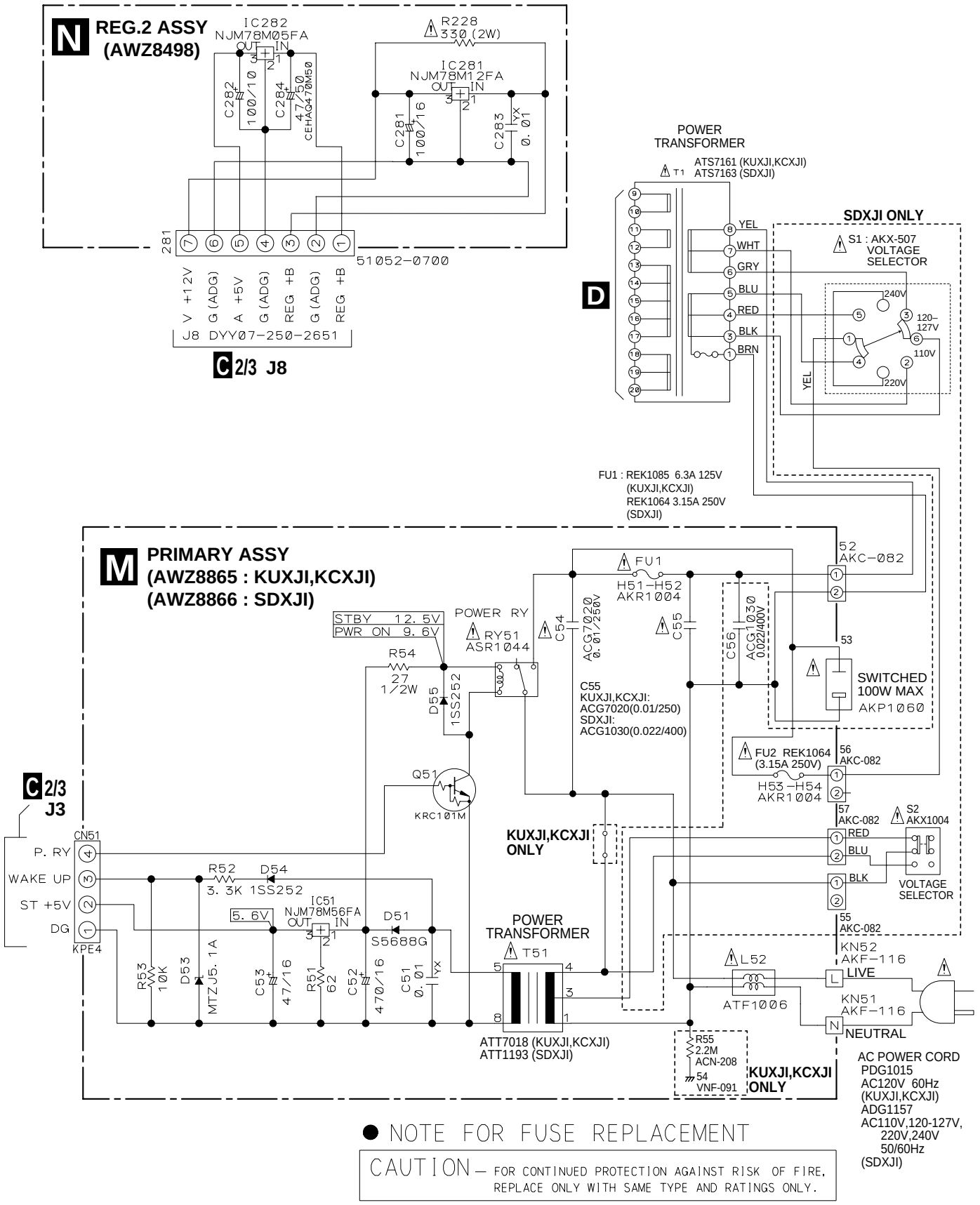
2. Capacitors
   Indicated in capacity(uF)/voltege(V)
   unless otherwise noted
   p=pF
   Indication without voltae is 50V except electroiytic capacitor
   NL=CEANL⁻, TX=CFTXA⁻

3. Diodes
   Other diodes(not noted) are 1SS252

3.12 VIDEO/SR ASSY



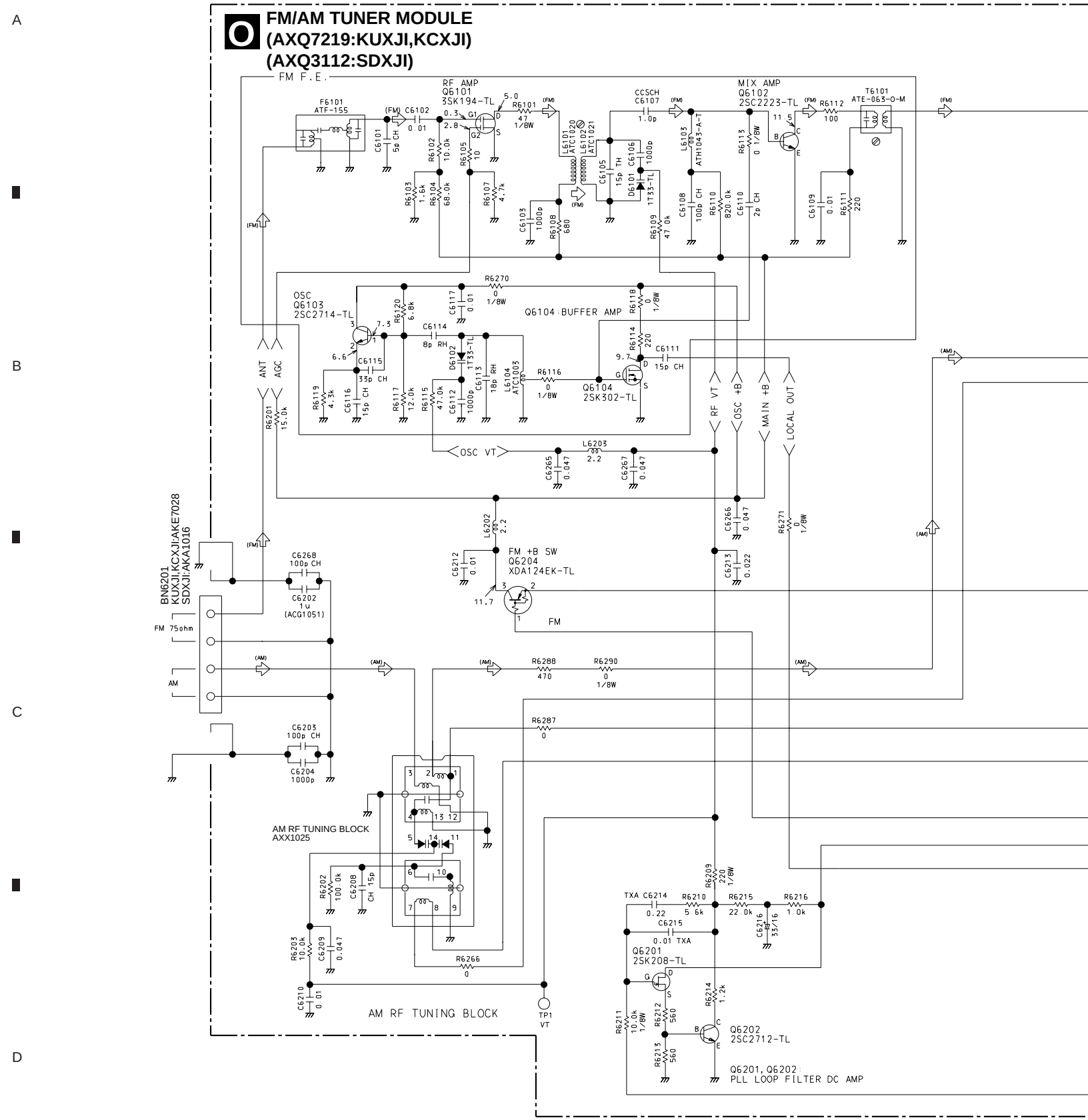
3.13 PRIMARY AND REG.2 ASSEMBLIES

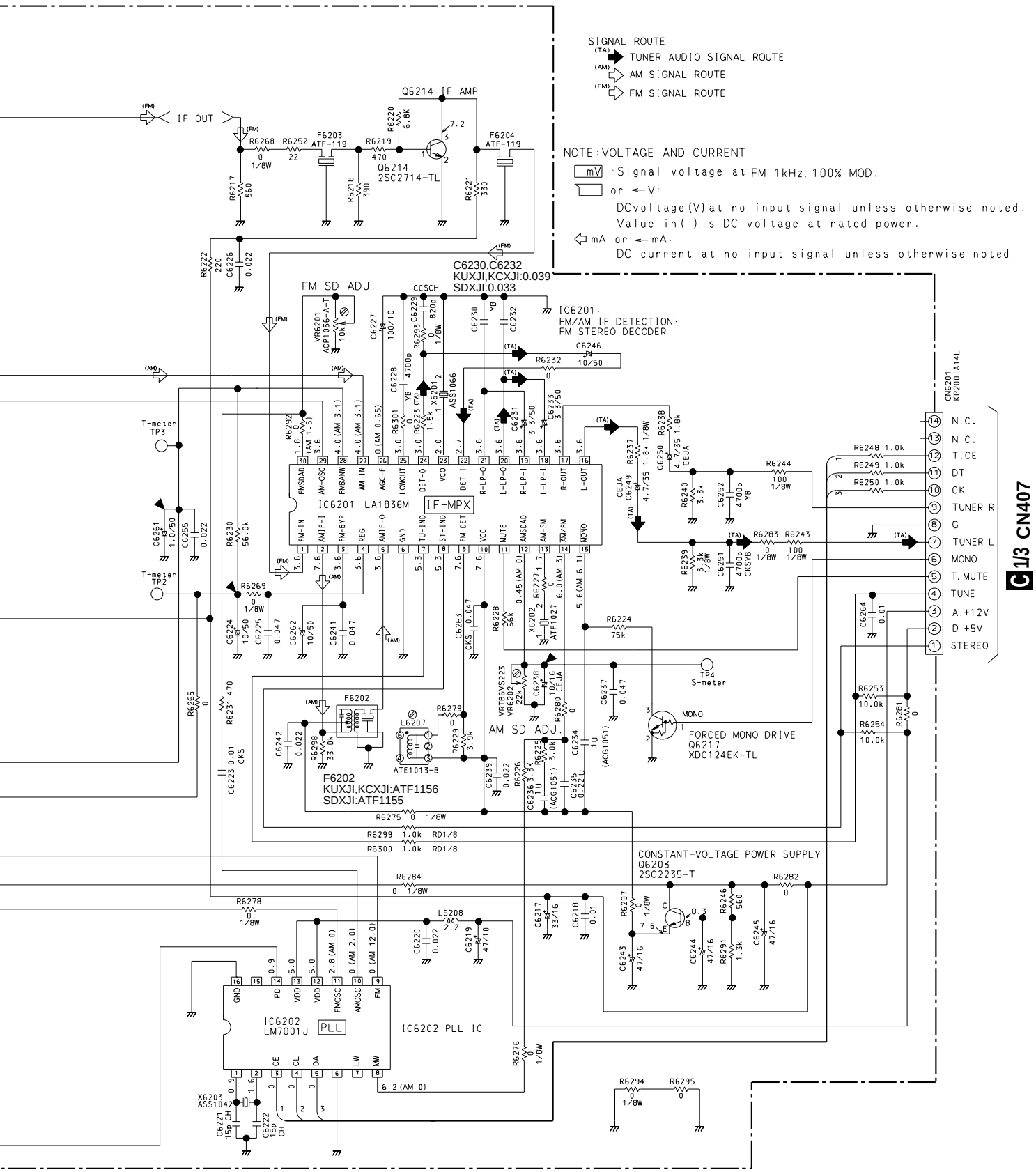


● NOTE FOR FUSE REPLACEMENT

CAUTION – FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.

3.14 FM/AM TUNER MODULE




SIGNAL ROUTE
(TA) : TUNER AUDIO SIGNAL ROUTE
(AM) : AM SIGNAL ROUTE
(FM) : FM SIGNAL ROUTE
NOTE : VOLTAGE AND CURRENT
mV : Signal voltage at FM 1kHz, 100% MOD.
or ← V :
DC voltage (V) at no input signal unless otherwise noted.
Value in ( ) is DC voltage at rated power.
mA or ← mA :
DC current at no input signal unless otherwise noted.
Q6214 IF AMP
IF OUT
Q6214
2SC2714-TL
F6202
KUXJI,KCXJI:ATF1156
SDXJI:ATF1155
C6230,C6232
KUXJI,KCXJI:0.039
SDXJI:0.033
FM SD ADJ.
AM SD ADJ.
IC6201 :
FM/AM IF DETECTION
FM STEREO DECODER
IC6201 LA1836M
IF+MPX
FORCED MONO DRIVE
Q6217
XDC124EK-TL
CONSTANT-VOLTAGE POWER SUPPLY
Q6203
2SC2235-T
IC6202
LM7001J
PLL
IC6202 : PLL IC
CN6201
KP2001A14L
C 1/3 CN407
N.C.
T.CE
DT
CK
TUNER R
G
TUNER L
MONO
T. MUTE
TUNE
A.+12V
D.+5V
STEREO

4. PCB CONNECTION DIAGRAM

4.1 FL/U-COM AND POWER SWITCH ASSEMBLIES

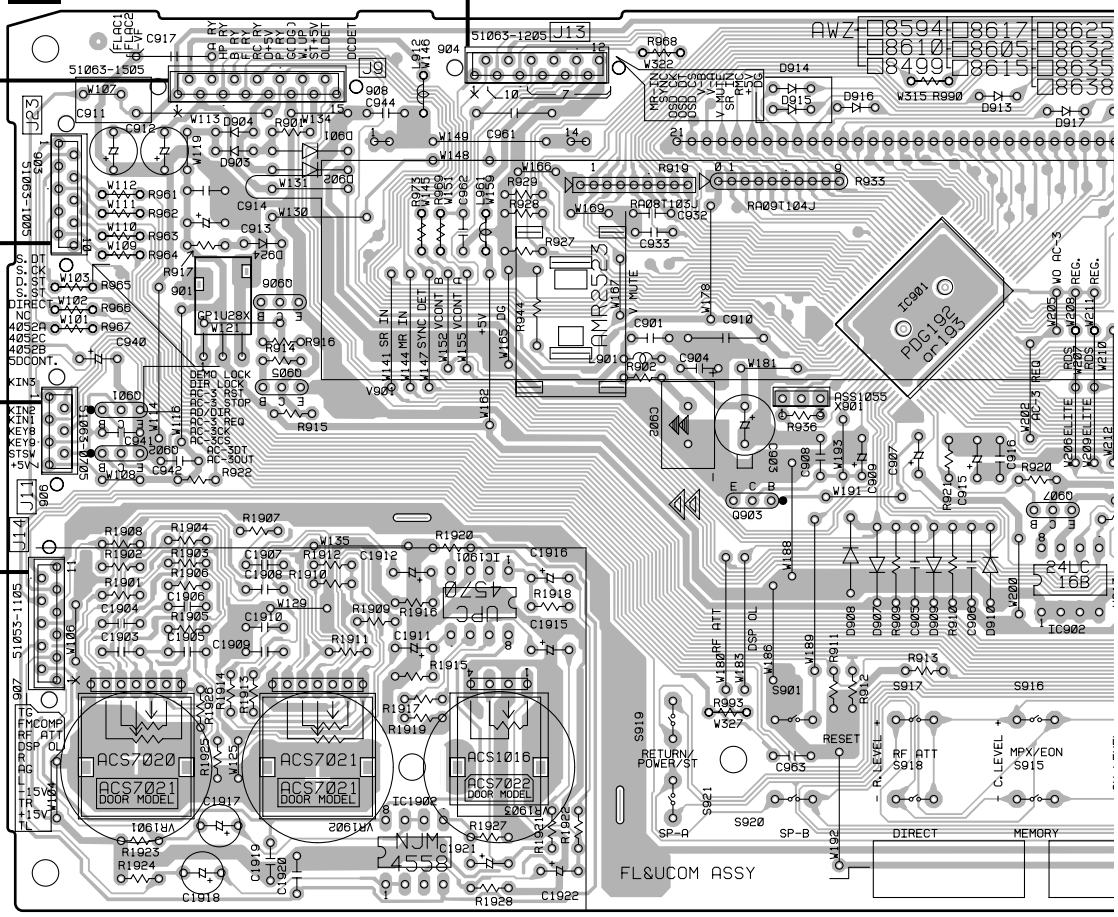
A FL/U-COM ASSY

L CN802

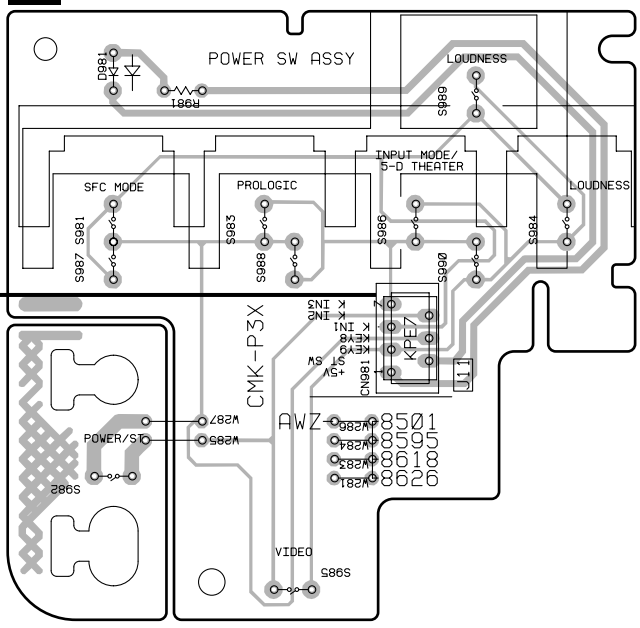
C CN206

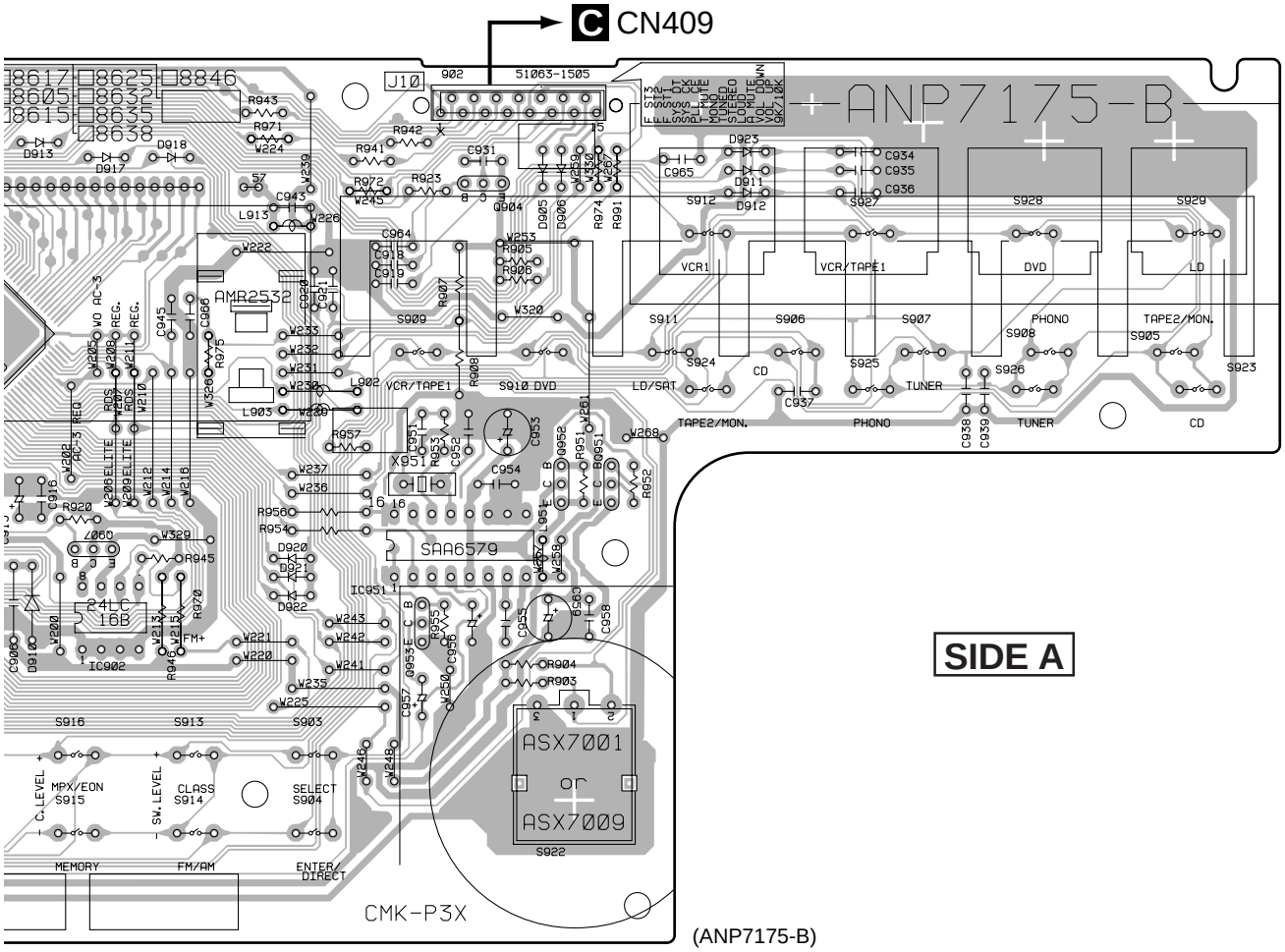
H CN9301

C CN411



B POWER SWITCH ASSY





(ANP7175-B)

Q907
IC902

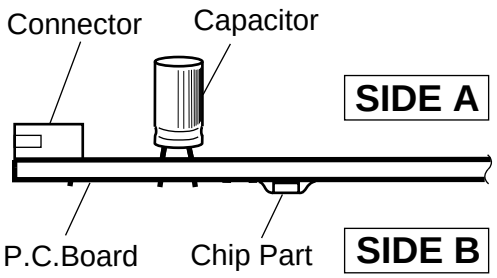
Q904 Q952 Q951
IC951
Q953

NOTE FOR PCB DIAGRAMS :

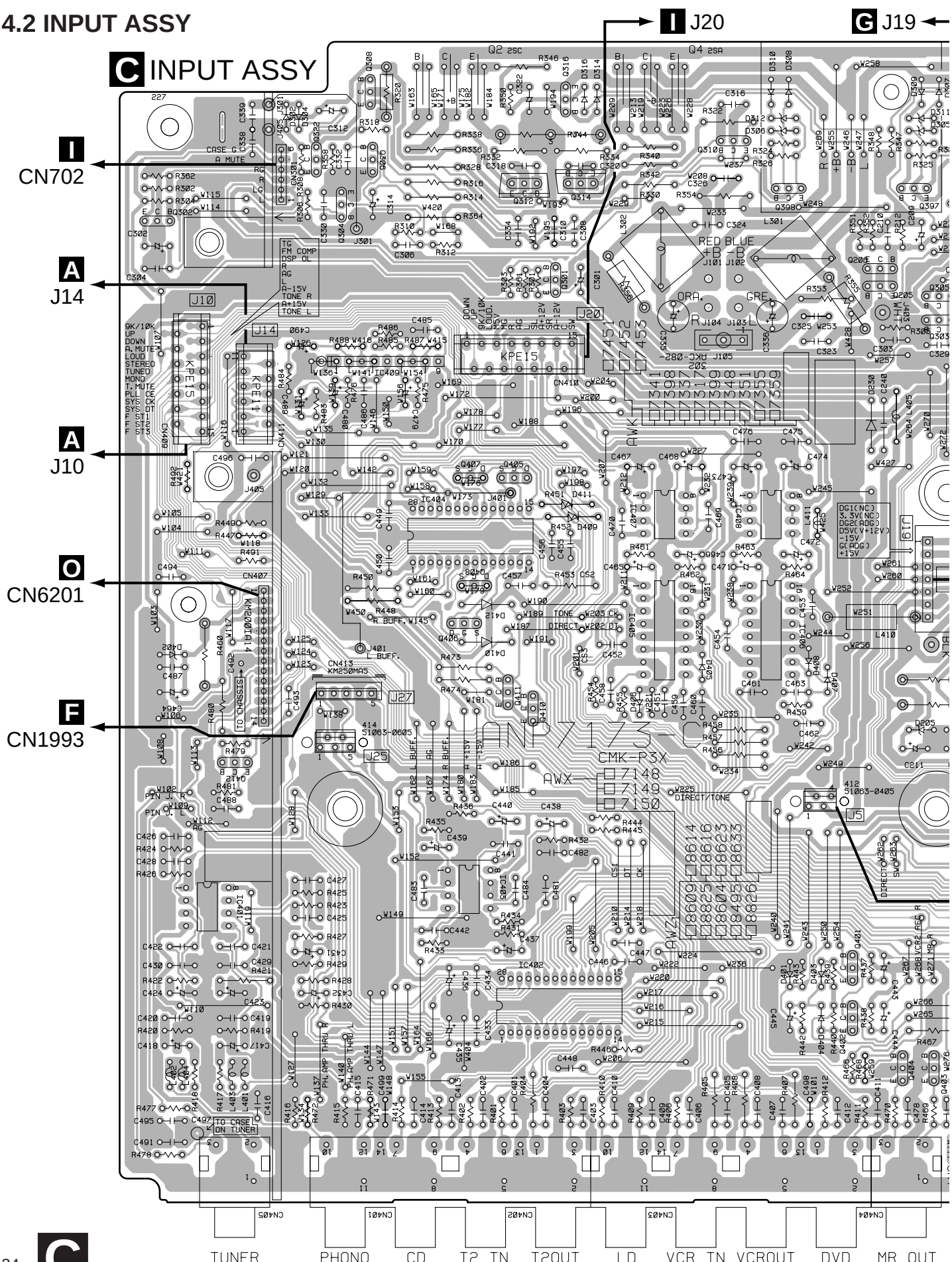
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

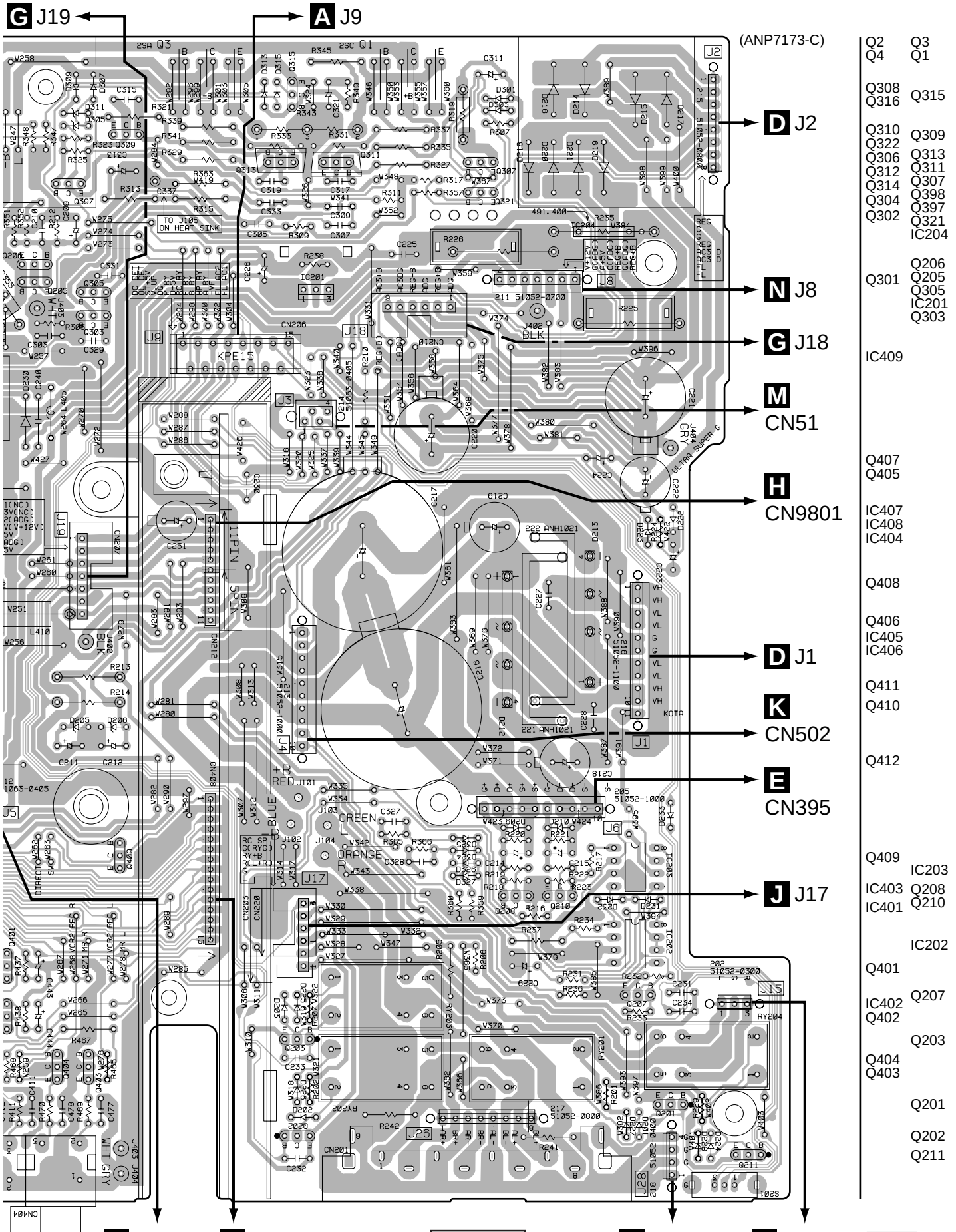
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

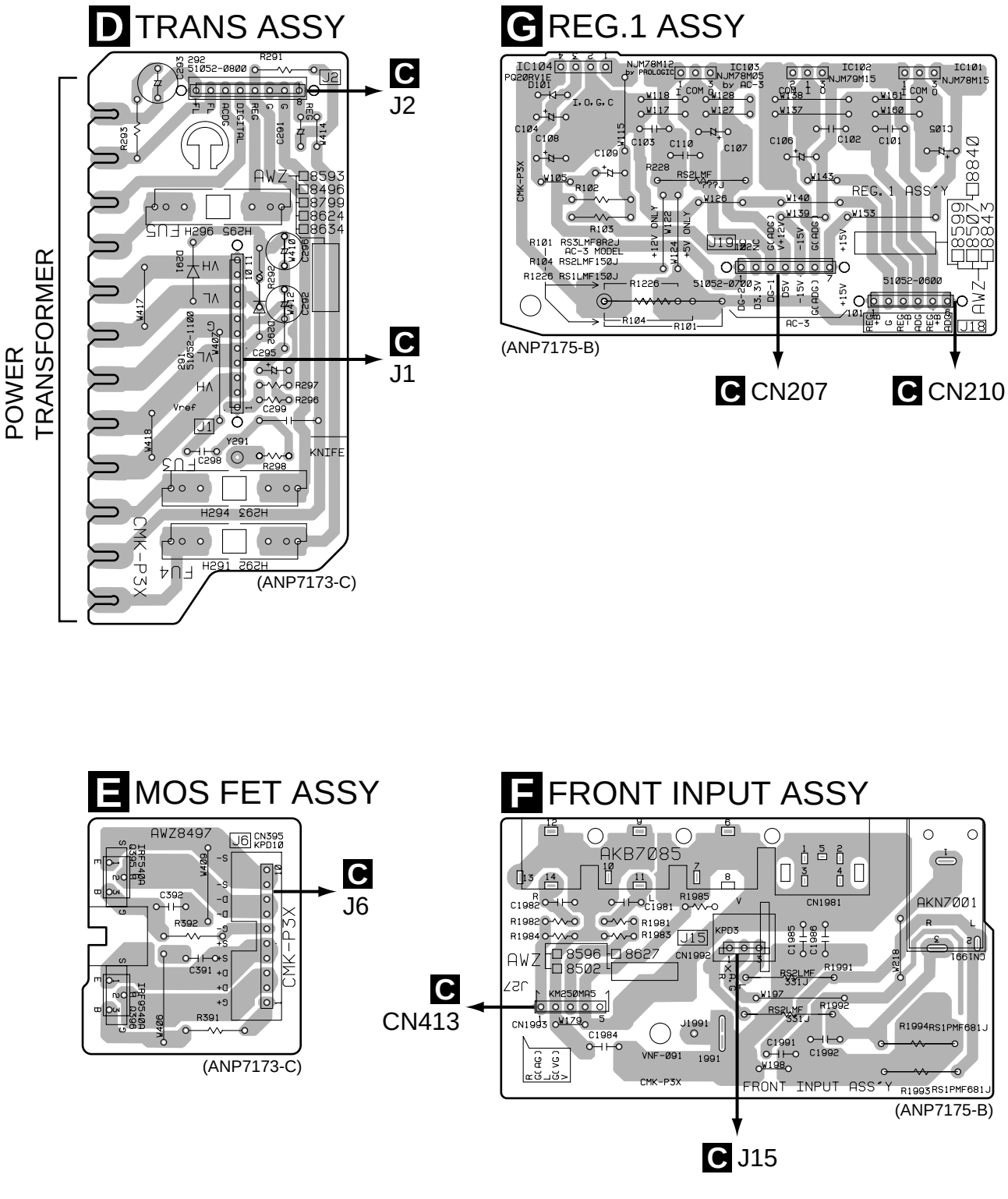


4.2 INPUT ASSY



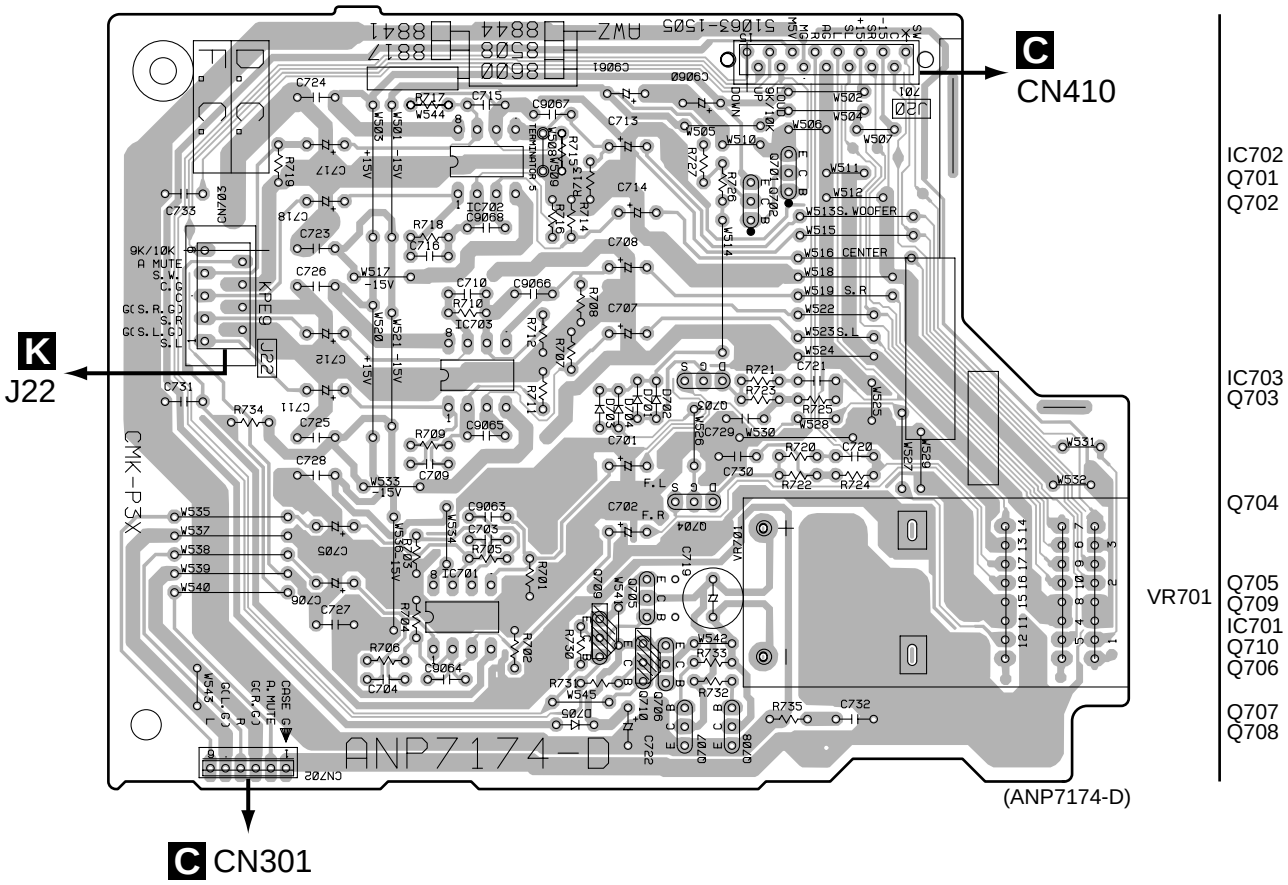

G J19
A J9
(ANP7173-C)
D J2
N J8
G J18
M CN51
H CN9801
D J1
K CN502
E CN395
J J17
L CN804
H CN9661
SIDE A
J CN155
F CN1992
Q2 Q3
Q4 Q1
Q308 Q315
Q316
Q310 Q309
Q322
Q306 Q313
Q312 Q311
Q314 Q307
Q304 Q398
Q302 Q397
Q321
IC204
Q206
Q301 Q205
Q305
IC201
Q303
IC409
Q407
Q405
IC407
IC408
IC404
Q408
Q406
IC405
IC406
Q411
Q410
Q412
Q409
IC203
IC403 Q208
IC401 Q210
IC202
Q401
Q207
IC402
Q402
Q203
Q404
Q403
Q201
Q202
Q211
A
B
C
D

4.3 TRANS, MOS FET, FRONT INPUT AND REG.1 ASSEMBLIES

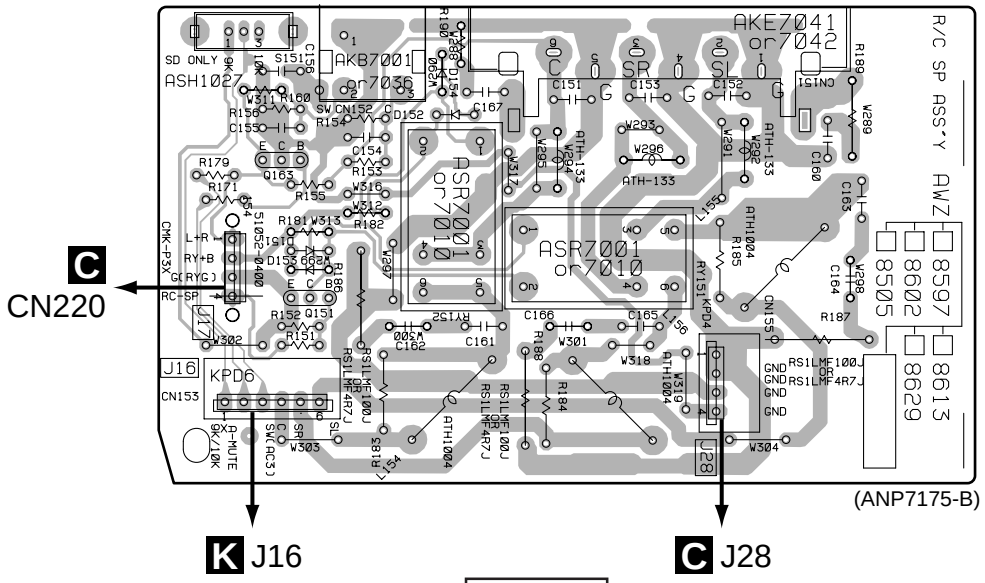


4.4 VOLUME AND R/C SPEAKER ASSEMBLIES

I VOLUME ASSY



J R/C SPEAKER ASSY

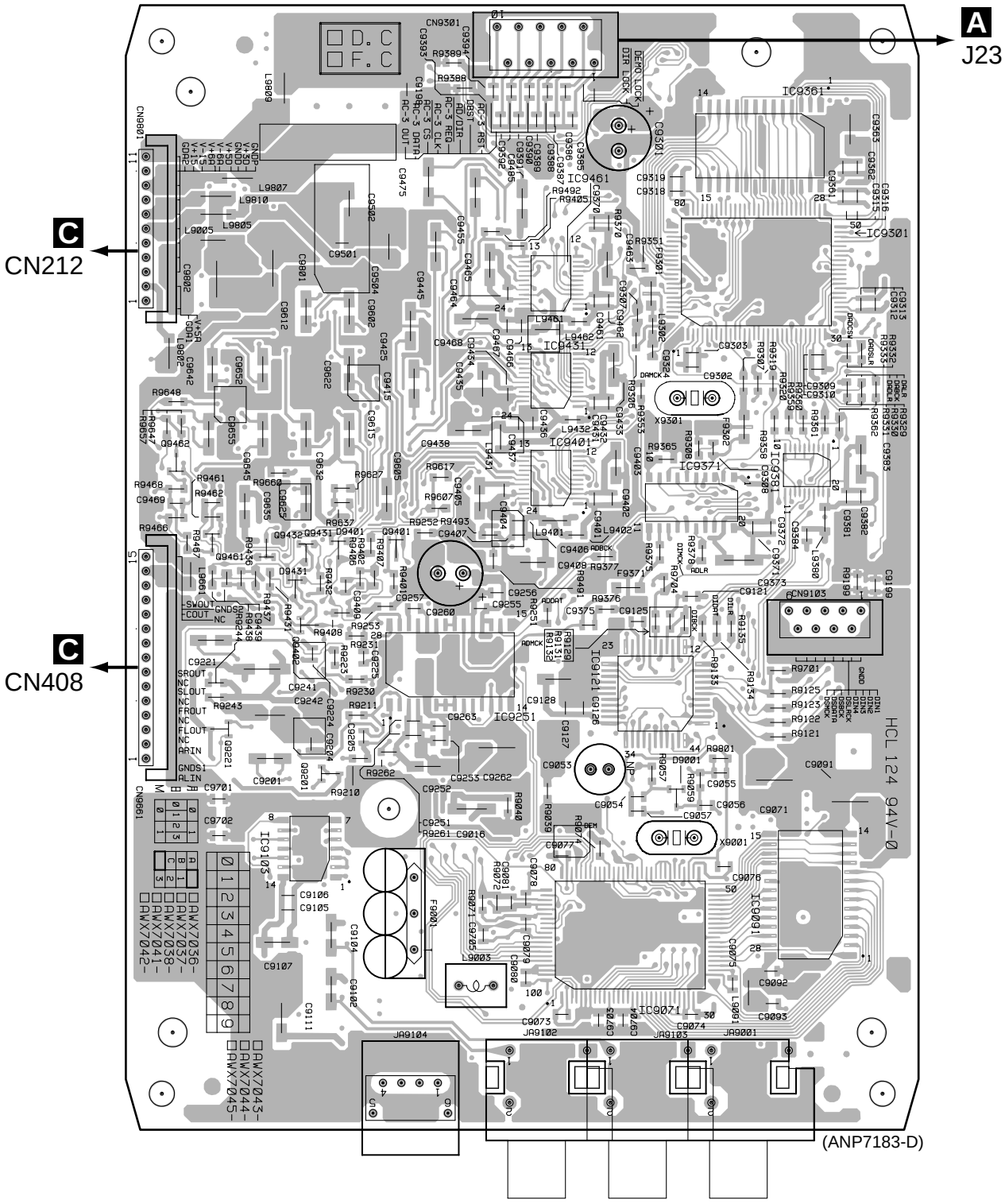


SIDE A

4.5 DOLBY DIGITAL ASSY

• This diagram has four layers. In the two middle layers, mainly Vcc and GND are connected.

H DOLBY DIGITAL ASSY

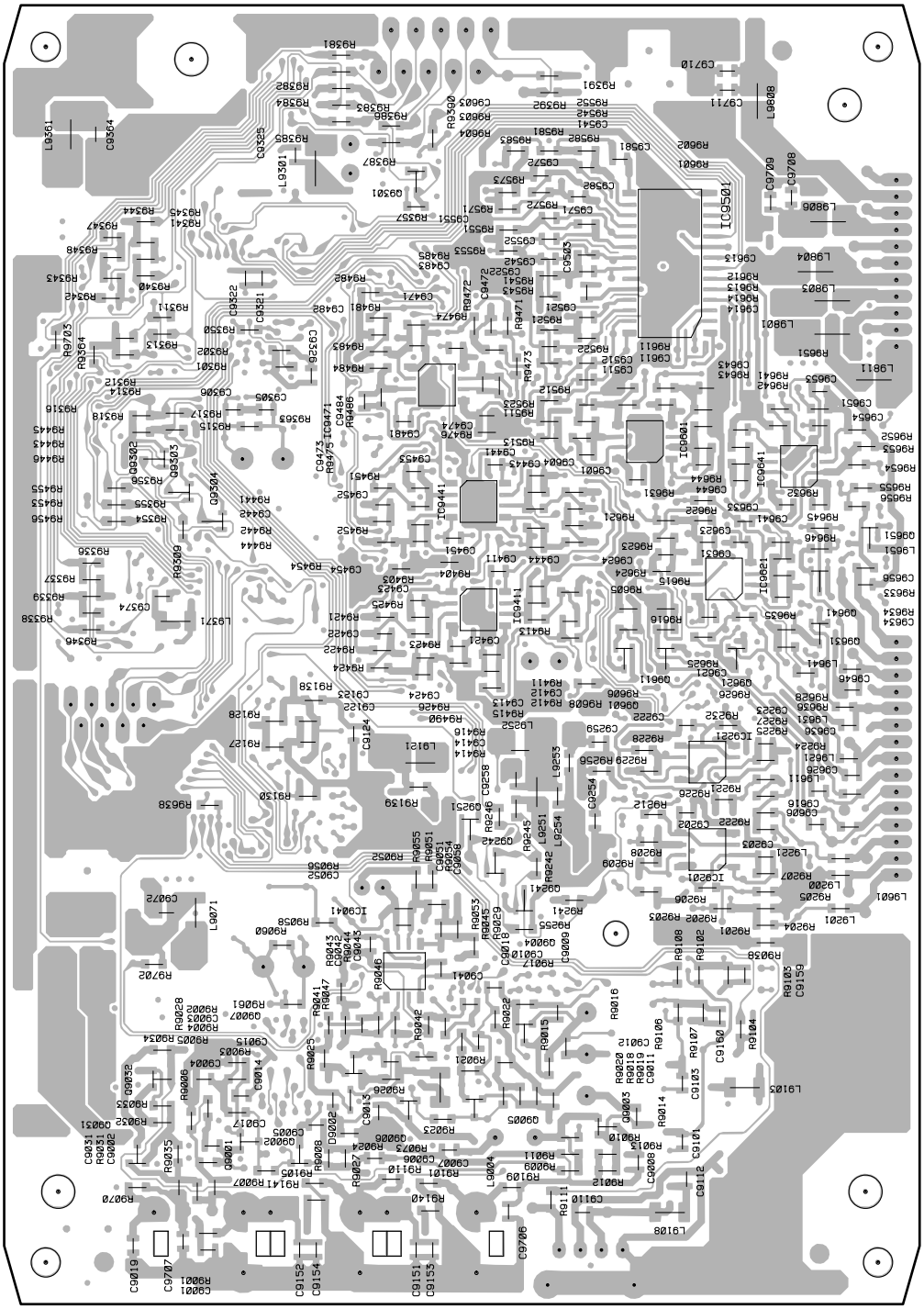


Q9462	Q9431	Q9401	IC9461	IC9371	IC9361
Q9461	Q9402	IC9251	IC9431	IC9121	IC9301
Q9221	Q9201		IC9401	IC9071	IC9381
Q9432	IC9103				IC9091

SIDE A

• This diagram has four layers. In the two middle layers, mainly Vcc and GND are connected.

H DOLBY DIGITAL ASSY



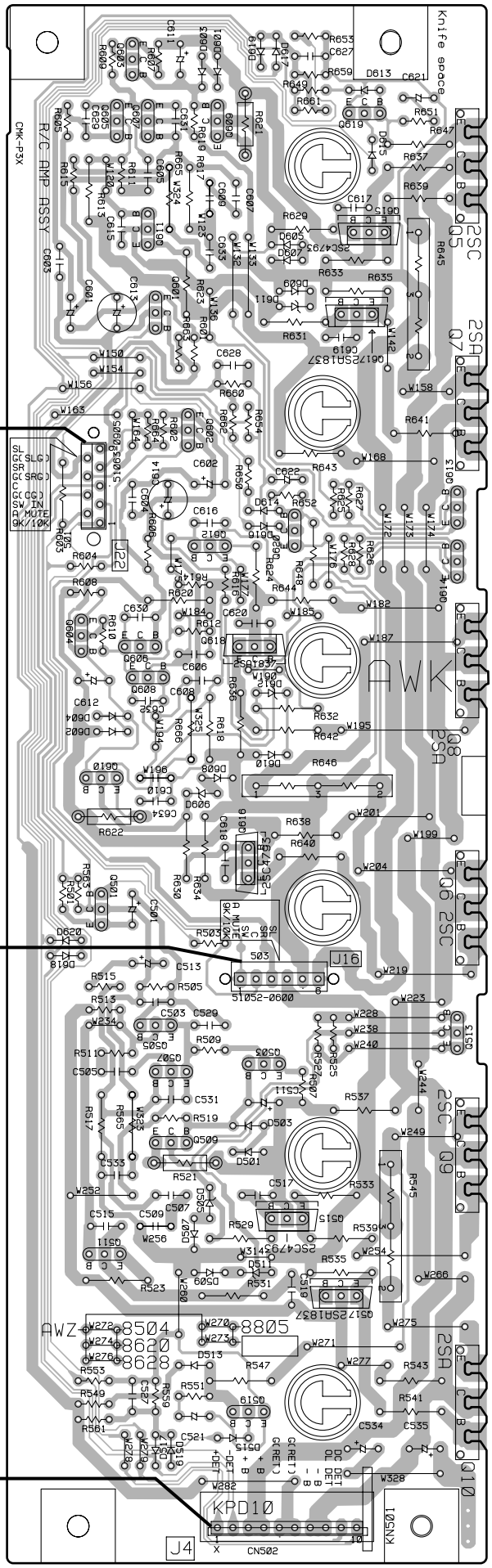
(ANP7183-D)

Q9302	Q9304	IC9471	IC9441	IC9501	IC9621	IC9641
Q9303	Q9002	IC9041	IC9411	IC9601	Q9621	Q9651
Q9032		Q9006	Q9251	Q9601	IC9221	Q9641
Q9031		Q9301	Q9242	Q9611	IC9201	Q9631
		Q9005	Q9241	Q9003		
			Q9004			

SIDE B

4.6 R/C AMP ASSY

K R/C AMP ASSY



I CN703

J CN153

C J4

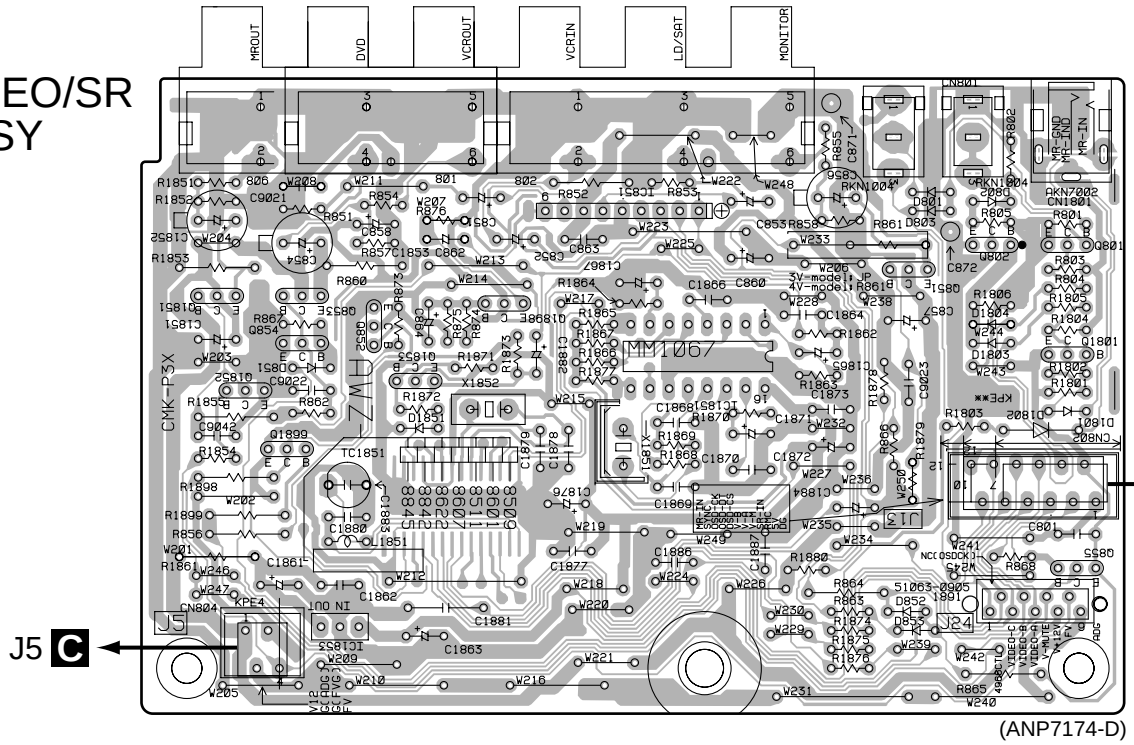
Q603
Q605 Q619
Q607 Q609
Q5
Q611 Q615
Q601 Q617
Q7
Q602
Q613
Q620
Q612
Q614
Q604
Q606 Q618
Q8
Q608
Q610
Q616
Q501 Q6
Q505 Q513
Q507 Q503
Q509 Q9
Q515
Q511
Q517
Q10
Q519

SIDE A

(ANP7175-B)

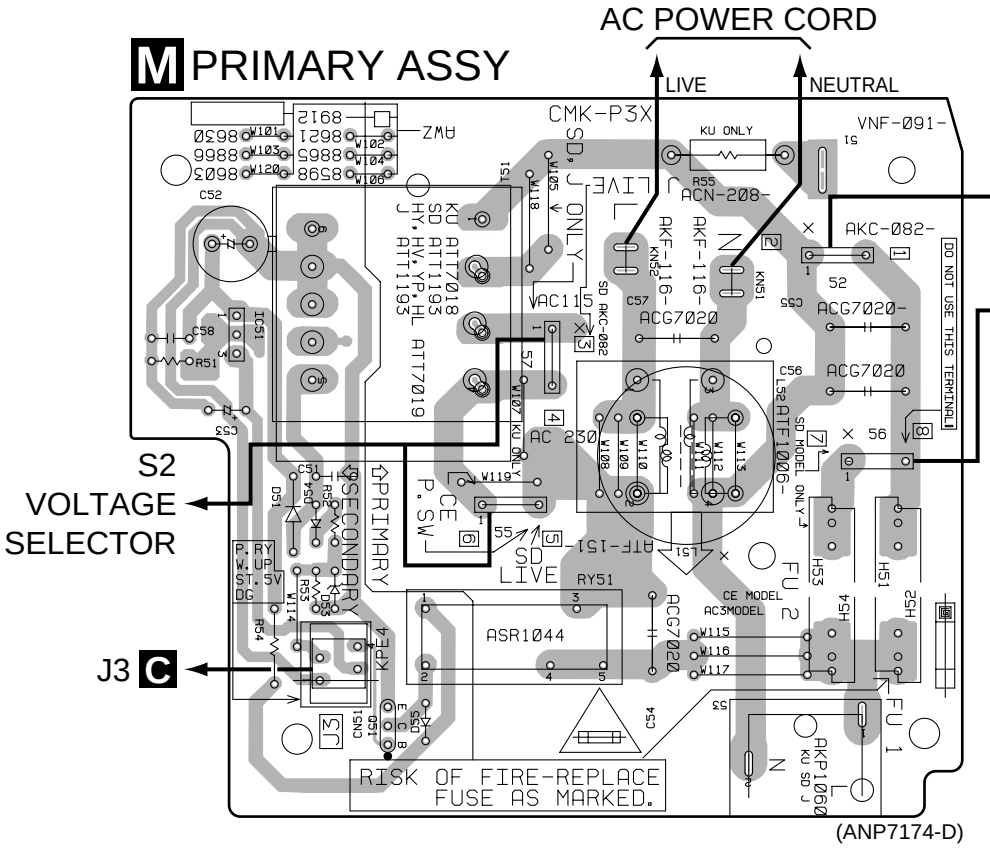
4.7 VIDEO/SR, PRIMARY AND REG.2 ASSEMBLIES

L VIDEO/SR ASSY

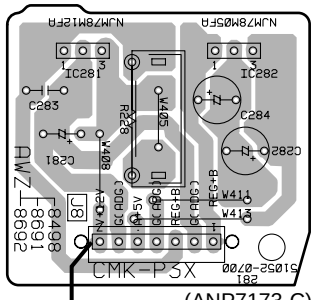


Q1851 Q853 Q852 Q1898 IC851 Q851 Q802 Q801
Q1852 Q854 Q1853 IC1851 Q1801
Q1899 IC1853 Q855

M PRIMARY ASSY



N REG.2 ASSY

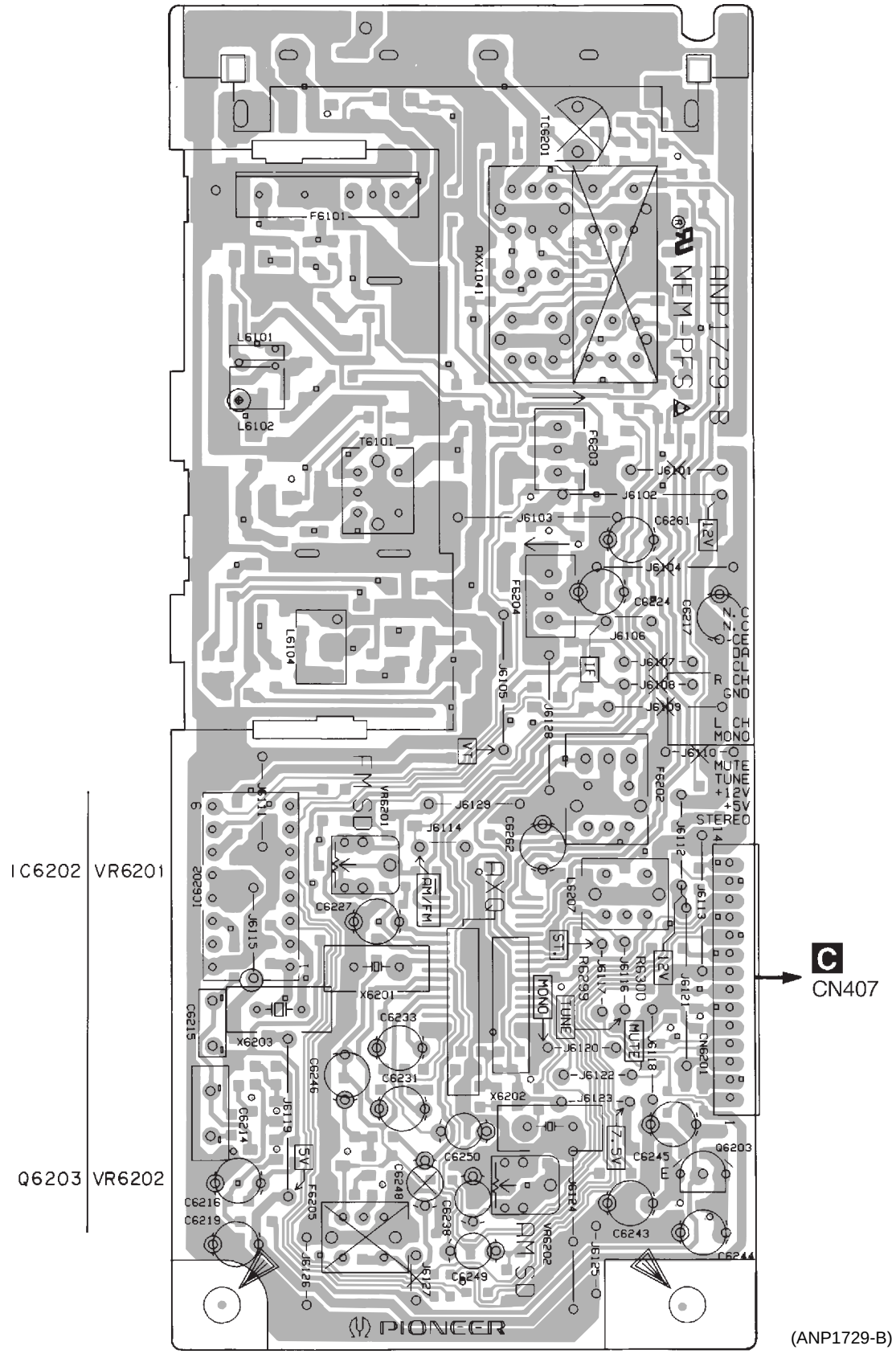


C J8

SIDE A

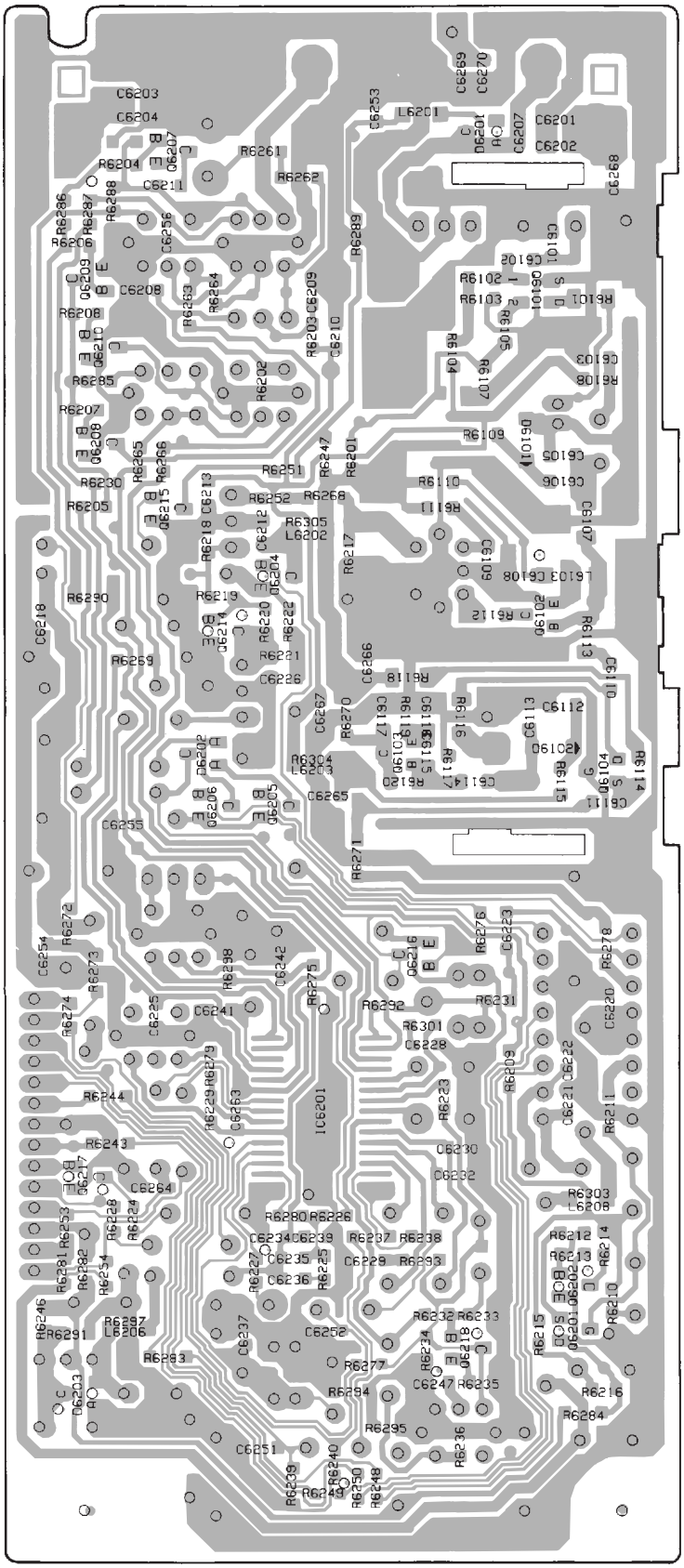
4.8 FM/AM TUNER MODULE

O FM/AM TUNER MODULE



SIDE A

FM/AM TUNER MODULE



(ANP1729-B)

SIDE B

5. PCB PARTS LIST

NOTES: ●*Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).
560 Ω → 56 × 10¹ → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K
Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.			Remarks
		VSX-D607S /KUXJI	VSX-D607S /KCXJI	VSX-D607S /SDXJI	
NSP	MOTHER ASSY	AWK7451	AWK7451	AWK7452	
	├─INPUT ASSY	AWX7148	AWX7148	AWX7149	
	├─TRANS ASSY	AWZ8496	AWZ8496	AWZ8496	
NSP	├─MOS FET ASSY	AWZ8497	AWZ8497	AWZ8497	
	└─REG.2 ASSY	AWZ8498	AWZ8498	AWZ8498	
NSP	FRONT & R/C AMP ASSY	AWK7443	AWK7443	AWK7445	
	├─FL/U-COM ASSY	AWZ8043	AWZ8043	AWZ8043	
NSP	├─POWER SWITCH ASSY	AWZ8501	AWZ8501	AWZ8501	
NSP	├─FRONT INPUT ASSY	AWZ8502	AWZ8502	AWZ8502	
	├─R/C AMP ASSY	AWZ8504	AWZ8504	AWZ8504	
	├─R/C SPEAKER ASSY	AWZ8505	AWZ8505	AWZ8613	
	└─REG.1 ASSY	AWZ8507	AWZ8507	AWZ8507	
NSP	COMPLEX ASSY	AWK7454	AWK7454	AWK7455	
	├─VOLUME ASSY	AWZ8047	AWZ8047	AWZ8047	
	├─VIDEO/SR ASSY	AWZ8509	AWZ8509	AWZ8509	
NSP	└─PRIMARY ASSY	AWZ8865	AWZ8865	AWZ8866	
	DOLBY DIGITAL ASSY	AWX7042	AWX7042	AWX7042	
	FM/AM TUNER MODULE	AXQ7219	AXQ7219	AXQ3112	

Mark	No.	Description	Part No.
A		**FL/U-COM ASSY**	
		SEMICONDUCTORS	
		IC1902	NJM4558D-D
		IC901	PDG213A
		IC1901	UPC4570C
		Q904	2SA933S
		Q905,Q906	2SC1740S
		Q901,Q903	KRC101M
		Q902	KRC103M
		D901-D912,D914-D918	1SS252
		D923,D924	1SS252
		COIL	
		L901	LAU2R2J
		SWITCHES	
		S901,S903-S911,S913-S916	ASG1034
		S918-S921	ASG1034
		S922	ASX7001
		CAPACITORS	
		C902 (0.22F)	ACH7058
		C932,C933	CCPUSL220J50
		C1911,C1912,C1915-C1918	CEAS100M50
		C911	CEAS101M25
		C903	CEAS221M10
		C1921,C1922,C907,C909	CEAS2R2M50
		C940	CEAS470M16
		C913	CEAS470M25
		C912	CEAS470M50
		C1907,C1908	CFTXA123J50
		C1905,C1906	CFTXA274J50
		C1903,C1904	CFTXA473J50
		C1909,C1910	CFTXA563J50
		C1919,C1920	CGCYX103M16
		C908	CGCYX104M16
		C914	CKCYF103Z50
		C917,C931,C934-C939	CKPUYB101K50
		C941,C942	CKPUYB101K50
		C919	CKPUYB102K50
		C943,C944	CKPUYF103Z25

Mark	No.	Description	Part No.
	C905,C906		CKPUYF473Z16
	C901,C904,C918,C945,C965		CKPUYY103M16
	C910		CKPYF103Z50

RESISTORS

	R919		RA8T103J
	VR1903 (500kΩ)		ACS1016
	VR1901,VR1902 (30kΩ)		ACS7020
	Other Resistors		RD1/4PU□□□J

OTHERS

	X901	CERAMIC RESONATOR (7.70MHz)	ASS1055
	906	7P CABLE HOLDER	51063-0705
	903	10P CABLE HOLDER	51063-1005
	907	11P CABLE HOLDER	51063-1105
	904	12P CABLE HOLDER	51063-1205
	902,908	15P CABLE HOLDER	51063-1505
	V901	FL TUBE	AAV7034
	901	REMOTE RECEIVER UNIT	GP1U28X

B POWER SWITCH ASSY

SEMICONDUCTOR

	D981		AEL1065

SWITCHES

	S981-S986		ASG1034

RESISTORS

	All Resistors		RD1/4PU□□□J

OTHERS

	CN981	7P JAMPER CONNECTOR	KPE7

C INPUT ASSY

(1) CONTRAST TABLE

AWX7148 and AWX7149 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX7148	AWX7149	
	C216,C217	ACH7018 (8200µF/71V)	ACH7019 (8200µF/80V)	
	C495	CGCYX104M12	CGCYX104M16	

(2) PARTS LIST FOR AWX7148

SEMICONDUCTORS

	IC202,IC203,IC403,IC407,IC408	NJM4558D-D
	IC409	NJM4558LD
	IC201	NJM78M56FA
	IC404	TC9162AN
	IC402	TC9273N-007
	IC405,IC406	TC9299P
	IC401	UPC4570C
⚠	Q307,Q308	2SA1321
⚠	Q313,Q314	2SA1837
	Q321,Q322	2SA970
	Q210,Q303-Q306	2SA992
	Q205,Q206,Q397,Q398	2SC1740S
	Q401,Q402	2SC1740S
	Q208	2SC1845
	Q315,Q316	2SC2240
	Q207,Q301,Q302	2SC2878
⚠	Q309,Q310	2SC3334
⚠	Q311,Q312	2SC4793
	Q201-Q203,Q211	KRC101M
	D201-D203,D224,D230-D233	1SS252
	D301-D304,D313-D316	1SS252
	D324-D327,D403-D408	1SS252
	D212,D213	D5SBA20
	D209,D210	MTZJ18B
	D401,D402	MTZJ5.1B
	D222	MTZJ5.1C
	D205,D206	MTZJ6.2B
	D214-D221	S5688G

COILS

	L301,L302	AF CHOKE COIL	ATH1004
	L410,L411		LAU220J

SWITCH AND RELAYS

	S201	ASH1027
	RY201-RY204	ASR7001

CAPACITORS

	C227,C228 (0.01µF/AC250V)	ACG1005
	C216,C217 (8200µF/71V)	ACH7018
	C307,C308	CCCSL100D2H
	C446-C448,C455-C463	CCCSL101J50
	C317-C320	CCCSL101K2H
	C303,C304	CCCSL151J50
	C315,C316	CCCSL5R0C2H
	C321,C322	CEANP2R2M50
	C211,C212	CEAS100M25
	C417,C418	CEAS100M50
	C226,C311,C312	CEAS101M10
	C313,C314,C423,C424	CEAS101M25
	C218,C219	CEAS101M2A
	C222	CEAS102M35
	C214,C215,C445	CEAS1R0M50
	C209	CEAS221M10
	C301,C302,C437,C438	CEAS2R2M50
	C443,C444	CEAS2R2M50
	C220	CEAS332M16
	C223	CEAS470M16
	C224,C435,C436,C439,C440	CEAS470M25
	C464	CEAS470M25
	C335,C336	CEAS4R7M2A
	C229,C431,C432,C465-C468	CEAS4R7M50
	C471-C474,C479,C480	CEAS4R7M50
	C489,C490	CEAS4R7M50
	C323,C324	CFTXA473J50
	C491	CGCYX103M16
	C495	CGCYX104M12
	C429,C430,C433,C434	CGCYX473M25
	C441,C442,C449-C454	CGCYX473M25
	C469,C470,C475,C476,C487	CGCYX473M25
	C305,C306	CKCYB102K2H
	C210	CKCYB102K50
	C225,C485,C486	CKCYF103Z50

Mark	No.	Description	Part No.
	C427,C428		CQMA242J50
	C425,C426		CQMA822J50
	C221 (4700µF/35V)		RCH1107

RESISTORS

⚠	R343,R344 (0.33Ω/5W)		ACN7001
	R226 (27Ω/5W)		ACN7022
	R319,R320		RD1/4LMF680J
	R315,R316		RD1/4PM104J
	R313,R314		RD1/4PM362J
⚠	R353,R354		RD1/4PMF100J
⚠	R327-R334		RD1/4PMF101J
⚠	R345,R346		RD1/4PMF472J
⚠	R321,R322		RF1/4PS101J
⚠	R337-R340		RF1/4PS4R7J
⚠	R335,R336,R341,R342		RF1/4PS8R2J
	R355,R356		RS1LMF100J
	R460		RS1PMF181J
	R213,R214		RS1PMF271J
	R225		RS3LMF560J
	Other Resistors		RD1/4PU□□□J

OTHERS

	202	3P CABLE HOLDER	51052-0300
	218	4P CABLE HOLDER	51052-0400
	211	7P CABLE HOLDER	51052-0700
	215	8P CABLE HOLDER	51052-0800
	205,213	10P CABLE HOLDER	51052-1000
	216	11P CABLE HOLDER	51052-1100
	214,412	4P CABLE HOLDER	51063-0405
	402,403	4P PIN JACK	AKB7014
	CN401,CN404	4P PIN JACK	AKB7015
	CN201	8P SPEAKER TERMINAL	AKE7006
	J402	JAMPER WIRE	DB022ND0
	J404	JAMPER WIRE	DB832ND2
	CN407	14P PLUG	KM200IA14
	CN212	11P PLUG	KM200TA11
	CN408	15P PLUG	KM200TA15
	CN301	6P PLUG	KM200TA6
	CN413	5P PLUG	KM250MA5
	CN220	4P JAMPER CONNECTOR	KPD4
	CN210	6P JAMPER CONNECTOR	KPD6
	CN207	7P JAMPER CONNECTOR	KPD7
	CN411	11P JAMPER CONNECTOR	KPE11
	CN206,CN409,CN410	15P JAMPER CONNECTOR	KPE15
	227	EARTH METAL	VNF-091

D TRANS ASSY

SEMICONDUCTORS

D291,D292		S5688G

CAPACITOR

C295		CEAS470M50

RESISTORS

All Resistors		RD1/4PU□□□J

Mark	No.	Description	Part No.

OTHERS

	292	8P CABLE HOLDER	51052-0800
	291	11P CABLE HOLDER	51052-1100
	H291-H296	FUSE CLIP	AKR1004

E MOS FET ASSY

SEMICONDUCTORS

Q395		IRF540A
Q396		IRF9540A

RESISTORS

⚠	R391,R392	RD1/4PMF101J
	Other Resistors	RD1/4PM□□□J

OTHERS

	CN395	11P JAMPER CONNECTOR	KPD10

F FRONT INPUT ASSY

CAPACITORS

C1984-C1986		CGCYX473M16

RESISTORS

R1991,R1992		RS2LMF331J
Other Resistors		RD1/4PU□□□J

OTHERS

	CN1981	3P PIN JACK	AKB7085
	CN1991	HEADPHONE JACK	AKN7001
	CN1993	5P PLUG	KM250MA5
	CN1992	3P JAMPER CONNECTOR	KPD3

G REG.1 ASSY

SEMICONDUCTORS

IC103		NJM78M05FA
IC101		NJM78M15FA
IC102		NJM79M15FA
IC104		PQ20RV1E
D101		1SS252

CAPACITORS

C107		CEAS101M10
C105,C106		CEAS101M16
C108		CEAS470M10
C104		CEHAQ470M25
C101-C103		CKCYF103Z50

RESISTORS

R103		RN1/4PC1471F
R102		RN1/4PC8200F
R101		RS3LMF8R2J

OTHERS

	101	6P CABLE HOLDER	51052-0600
	102	7P CABLE HOLDER	51052-0700

Mark	No.	Description	Part No.

H DOLBY DIGITAL ASSY

SEMICONDUCTORS

	IC9401,IC9431,IC9461	AK4319-VM
	IC9251	AK5340-VS
	IC9121	CD0004AF
	IC9361	KM62V256CLG-7L
	IC9301	MB86342A
	IC9201,IC9221	NJM2100M
	IC9411,IC9441,IC9471,IC9601,IC9621	NJM4558MD
	IC9641	NJM4558MD
	IC9501	PA4025A
	IC9371	TC74HCT244AF
	IC9103	TC74HCU04AF
	IC9381	TC74LVX244FS
	Q9241,Q9401,Q9431,Q9461	2PB709A
	Q9242,Q9402,Q9432,Q9462	2PD601A
	Q9201,Q9221,Q9601,Q9611,Q9621	2SC3326
	Q9631,Q9641,Q9651	2SC3326
	Q9304	PDTA124EK
	Q9251,Q9301-Q9303	PDTC124EK
	D9401,D9431	1SS181

COILS AND FILTERS

	F9301,F9302,F9371	ATF7013
	CHIP EMI FILTER	
	L9301,L9801-L9811	ATL7001
	CHIP SOLID INDUCTOR	
	L9200,L9201,L9221,L9252-L9254	ATX1026
	L9402,L9432,L9462,L9601,L9611	ATX1026
	L9621,L9631,L9641,L9651	ATX1026
	CHIP SOLID INDUCTOR	
	L9302 CHIP COIL	LCTBR47K2125
	L9103,L9108,L9121,L9251,L9361	VTL1019
	L9371,L9380,L9401,L9431,L9461	VTL1019
	L9661 CHIP SOLID INDUCTOR	VTL1019

CAPACITORS

	C9105,C9122,C9126,C9159,C9160	CCSQCH101J50
	C9255,C9263,C9302,C9309,C9312	CCSQCH101J50
	C9315,C9318,C9321,C9361,C9381	CCSQCH101J50
	C9401,C9406,C9431,C9436,C9461	CCSQCH101J50
	C9466	CCSQCH101J50
	C9511,C9521,C9541,C9551,C9571	CCSQCH102J50
	C9606,C9616,C9626,C9636,C9646	CCSQCH102J50
	C9656	CCSQCH102J50
	C9413,C9414,C9423,C9424	CCSQCH151J50
	C9443,C9444,C9453,C9454	CCSQCH151J50
	C9473,C9474	CCSQCH151J50
	C9125,C9203,C9223,C9305,C9306	CCSQCH220J50
	C9412,C9422,C9442,C9452,C9472	CCSQCH221J50
	C9482	CCSQCH221J50
	C9151,C9152,C9512,C9522,C9542	CCSQCH271J50
	C9552,C9572,C9702,C9704	CCSQCH271J50
	C9603,C9613,C9623,C9633,C9643	CCSQCH391J50
	C9326,C9392	CCSQCH471J50
	C9307,C9308,C9375	CCSQCH560J50
	C9301	CEAS102M6R3
	C9257	CEAS471M6R3
	C9107,C9128,C9201,C9221,C9403	CEV100M16
	C9405,C9408,C9433,C9435,C9438	CEV100M16
	C9463,C9465,C9468,C9502,C9504	CEV100M16
	C9602,C9605,C9612,C9615,C9622	CEV100M16
	C9625,C9632,C9635,C9642,C9645	CEV100M16
	C9652,C9655	CEV100M16
	C9262	CEV101M6R3
	C9415,C9425,C9445,C9455,C9475	CEV220M16
	C9485	CEV220M16
	C9241	CEV221M4
	C9801,C9802	CEV330M25
	C9111,C9242,C9363,C9373,C9383	CEV470M6R3
	C9371	CKSQYB102K50
	C9101,C9103,C9153,C9154,C9701	CKSQYB103K50
	C9703,C9706,C9707	CKSQYB103K50
	C9121,C9581	CKSQYB104K25
	C9205,C9225	CKSQYB152K50
	C9483,C9484	CKSQYB153K50
	C9582	CKSQYB273K50
	C9653	CKSQYB393K50
	C9106,C9110,C9123,C9127,C9202	CKSQYF104Z25
	C9204,C9222,C9224,C9251,C9253	CKSQYF104Z25
	C9256,C9259,C9303,C9310,C9313	CKSQYF104Z25
	C9316,C9319,C9322,C9324,C9362	CKSQYF104Z25
	C9372,C9382,C9402,C9404,C9407	CKSQYF104Z25
	C9409,C9411,C9421,C9432,C9434	CKSQYF104Z25
	C9437,C9439,C9441,C9451,C9462	CKSQYF104Z25
	C9464,C9467,C9469,C9471,C9481	CKSQYF104Z25
	C9501,C9503,C9601,C9611,C9621	CKSQYF104Z25
	C9631,C9641,C9651	CKSQYF104Z25

RESISTORS

	All Resistors	RS1/10S□□□J

OTHERS

	X9301 CRYSTAL RESONATOR (18.432MHz)	ASS1035
	JA9000 2P PIN JACK	AKB7095
	PC BOARD DOLBY DIGITAL	ANP7183
	CN9801 11P SOCKET	KP200TA11L
	CN9661 15P SOCKET	KP200TA15L
	CN9301 10P JAMPER CONNECTOR	KPE10
	JA9104 OPTICAL RECEIVER	TORX176

I VOLUME ASSY

SEMICONDUCTORS

	IC701-IC703	UPC4570C
	Q705,Q706	2SA1115
	Q707,Q708	2SC2603
	Q703,Q704	2SK246
	Q709,Q710	DTA143ES
	Q702	KRA103M
	Q701	KRC103M
	D701,D703,D705	1SS252

Mark	No.	Description	Part No.
CAPACITORS			
	C720,C721		CCCSL271J50
	C703,C704		CCPUSL560J50
	C719		CEANP100M50
	C722		CEAS220M50
	C701,C702,C705-C708		CEAS4R7M50
	C711-C714,C717,C718		CEAS4R7M50
	C729,C730		CFTXA473J50
	C723-C728		CGCYX104M25
	C709,C710		CKPUYB181K50
	C715		CKPUYB681K50
	C716		CKPUYB820K50
RESISTORS			
	VR701 (100kΩ)		ACX7028
	Other Resistors		RD1/4PU□□□J
OTHERS			
	701	15P CABLE HOLDER	51063-1505
	CN702	6P SOCKET	KP200TA6L
	CN703	9P JAMPER CONNECTOR	KPE9

J R/C SPEAKER ASSY

(1) CONTRAST TABLE

AWZ8505 and AWZ8613 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWZ8505	AW8613	
	S151	Not used	ASH1027	

(2) PARTS LIST FOR AWZ8505

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	Q151		2SC1740S
	Q163		2SC2878
	D151,D152		1SS252
COILS			
	L154-L156	AF CHOKE COIL	ATH1004
RELAYS			
	RY151,RY152		ASR7001
CAPACITORS			
	C161,C163,C165		CFTXA473J50
RESISTORS			
	R183-R185		RD1/4PMF100J
	R186-R188		RS1LMF100J
	Other Resistors		RD1/4PU□□□J
OTHERS			
	154	4P CABLE HOLDER	51052-0400
	CN152	2P PIN JACK	AKB7001
	CN151	6P SPEAKER TERMINAL	AKE7041
	CN155	4P JAMPER CONNECTOR	KPD4
	CN153	6P JAMPER CONNECTOR	KPD6

Mark	No.	Description	Part No.
K R/C AMP ASSY			
SEMICONDUCTORS			
	Q509,Q609,Q610		2SA1321
⚠	Q517,Q617,Q618		2SA1837
	Q503,Q603,Q604		2SA970
	Q505,Q507,Q605-Q608		2SA992
⚠	Q513,Q613,Q614		2SC1740S
	Q519,Q619,Q620		2SC2240
	Q501,Q601,Q602		2SC2878
	Q511,Q611,Q612		2SC3334
⚠	Q515,Q615,Q616		2SC4793
	D501,D503,D513,D515,D517		1SS252
	D519,D601-D604,D613-D620		1SS252
CAPACITORS			
	C517,C519,C617-C620		CCCSL101K2H
	C507,C607,C608		CCCSL120K2H
	C503,C603,C604		CCCSL151J50
	C515,C615,C616		CCCSL5R0C2H
	C521,C621,C622		CEANP2R2M50
	C511,C611,C612		CEAS101M10
	C513,C613,C614		CEAS101M25
	C501,C601,C602		CEAS2R2M50
	C505,C605,C606		CKCYB102K2H
RESISTORS			
⚠	R545,R645,R646 (0.33Ω/5W)		ACN7001
	R521,R621,R622		RD1/4LMF680J
	R517,R617,R618		RD1/4PM104J
⚠	R529,R531,R533,R535		RD1/4PMF101J
⚠	R629-R636		RD1/4PMF101J
⚠	R547,R647,R648		RD1/4PMF472J
⚠	R523,R623,R624		RF1/4PS101J
⚠	R539,R541,R639-R642		RF1/4PS4R7J
⚠	R537,R543,R637,R638		RF1/4PS8R2J
⚠	R643,R644		RF1/4PS8R2J
	Other Resistors		RD1/4PU□□□J
OTHERS			
	503	6P CABLE HOLDER	51052-0600
	501	9P CABLE HOLDER	51063-0905
	CN502	10P JAMPER CONNECTOR	KPD10

L VIDEO/SR ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC851		LA7952
	Q801,Q855		2SA933S
	Q1898,Q1899,Q851-Q854		2SC1740S
	Q802		KRC103M
	D801,D802,D851-D853		1SS252
CAPACITORS			
	C1853		CEANP4R7M50
	C857,C858,C860		CEAS470M25
	C854,C856		CEAS471M6R3
	C851-C853,C864		CEAS4R7M50
	C863		CKCYB102K50
	C801		CKCYF103Z50

Mark	No.	Description	Part No.
RESISTORS			
	R860,R861		RD1/4PM331J
	Other Resistors		RD1/4PU□□□J
OTHERS			
	801	2P PIN JACK	AKB7016
	802	3P PIN JACK	AKB7018
	CN804	4P JAMPER CONNECTOR	KPE4
	CN802	7P JAMPER CONNECTOR	KPE7
	JA803,JA807		RKN1004
		REMOTE CONTROL JACK	

M PRIMARY ASSY

(1) CONTRAST TABLE

AWZ8865 and AWZ8866 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWZ8865	AW8866	
⚠	T51	ATT7018	ATT1193	
⚠	C55	ACG7020 (0.01μF/AC250V)	ACG1030 (0.022μF/AC400V)	
⚠	C56 (0.022μF/AC400V)	Not used	ACG1030	
	R55 (2.2MΩ)	ACN-208	Not used	
	H53,H54 FUSE CLIP	Not used	AKR1004	
	54 EARTH METAL	VNF-091	Not used	

(2) PARTS LIST FOR AWZ8865

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC51		NJM78M56FA
	Q51		KRC101M
	D54,D55		1SS252
	D53		MTZJ5.1A
	D51		S5688G
COIL			
⚠	L52	LINE FILTER	ATF1006
TRANSFORMER			
⚠	T51		ATT7018
RELAY			
⚠	RY51		ASR1044
CAPACITORS			
⚠	C54,C55 (0.01μF/AC250V)		ACG7020
	C53		CEAS470M16
	C52		CEAS471M16
	C51		CGCYX103M25
RESISTORS			
	R55 (2.2MΩ)		ACN-208
	R54		RD1/2PM270J
	Other Resistors		RD1/4PU□□□J
OTHERS			
⚠	53	1P AC OUTLET	AKP1060
	H51,H52	FUSE CLIP	AKR1004
	CN51	4P JAMPER CONNECTOR	KPE4
	54	EARTH METAL	VNF-091

Mark	No.	Description	Part No.
N REG.2 ASSY			
SEMICONDUCTORS			
	IC282		NJM78M05FA
	IC281		NJM78M12FA
CAPACITORS			
	C282		CEAS101M10
	C281		CEAS101M16
	C284		CEHAQ470M50
	C283		CGCYX103M25
RESISTOR			
⚠	R228		RS2LMF331J
OTHERS			
	281	7P CABLE HOLDER	51052-0700

O FM/AM TUNER MODULE

(1) CONTRAST TABLE

AXQ7219 and AXQ3112 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AXQ7219	AXQ3112	
	F6202 AM CERAMIC FILTER	ATF1156	ATF1155	
	C6230	CKSQYB393K50	CKSQYB333K50	
	C6232	CKSYB393K50	CKSYB333K50	
	BN6201 4P ANTENNA TERMINAL	AKE7028	AKA1016	

(2) PARTS LIST FOR AXQ7219

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC6201		LA1836M
	IC6202		LM7001J
	Q6102		2SC2223
	Q6203		2SC2235
	Q6202		2SC2712
	Q6103,Q6214		2SC2714
	Q6201		2SK208
	Q6104		2SK302
	Q6101		3SK194
	Q6204		XDA124EK
	Q6217		XDC124EK
	D6101,D6102		1T33
COILS AND FILTERS			
	L6104	FM COIL	ATC1003
	L6101	FM RF COIL	ATC1020
	L6102	FM RF COIL	ATC1021
	L6207	FM COIL	ATE1013
	F6203,F6204	FM CERAMIC FILTER	ATF-119
	F6101	FM BAND PASS FILTER	ATF-155
	F6202	AM CERAMIC FILTER	ATF1156
	L6103	CHIP COIL	ATH1043
	L6202,L6203,L6208	CHIP COIL	LCTA2R2J3225
TRANSFORMER			
	T6101		ATE-063

Mark	No.	Description	Part No.
CAPACITORS			
	C6202,C6234,C6236 (1µF/16V)		ACG1051
	C6229		CCSCH821J50
	C6107		CCSCK1R0C50
	C6108,C6203,C6268		CCSQCH101J50
	C6111,C6116,C6208,C6221,C6222		CCSQCH150J50
	C6115		CCSQCH330J50
	C6101		CCSQCH5R0C50
	C6110		CCSQCK2R0C50
	C6114		CCSQRH080D50
	C6113		CCSQRH180J50
	C6105		CCSQTH150J50
	C6224,C6246,C6262		CEAS100M50
	C6227		CEAS101M10
	C6261		CEAS1R0M50
	C6216,C6217		CEAS330M16
	C6231,C6233		CEAS3R3M50
	C6219		CEAS470M10
	C6243-C6245		CEAS470M16
	C6238		CEJA100M16
	C6249,C6250		CEJA4R7M35
	C6215		CFTXA103J50
	C6214		CFTXA224J50
	C6103,C6106,C6112,C6204		CKSQYB102K50
	C6102,C6109,C6117,C6210,C6264		CKSQYB103K50
	C6213		CKSQYB223K50
	C6230		CKSQYB393K50
	C6228,C6252		CKSQYB472K50
	C6209,C6237,C6265,C6267		CKSQYB473K50
	C6212,C6218		CKSQYF103Z50
	C6220,C6226,C6239,C6242,C6255		CKSQYF223Z50
	C6235		CKSQYF224Z25
	C6225,C6241,C6266		CKSQYF473Z50
	C6232		CKSYB393K50
	C6251		CKSYB472K50
	C6223		CKSYF103Z50
	C6263		CKSYF473Z50
RESISTORS			
	R6299,R6300		RD1/4PU102J
	R6113,R6116,R6118,R6268-R6271		RS1/8S0R0J
	R6275,R6276,R6278,R6283,R6284		RS1/8S0R0J
	R6290,R6293,R6294,R6297		RS1/8S0R0J
	R6243,R6244		RS1/8S101J
	R6211		RS1/8S103J
	R6237		RS1/8S182J
	R6209		RS1/8S221J
	R6239		RS1/8S332J
	R6101		RS1/8S470J
	VR6201 (10kΩ)		ACP1056
	VR6202		VRTB6VS223
	Other Resistors		RS1/10S□□□J
OTHERS			
	X6203	CRYSTAL RESONATOR (7.2MHz)	ASS1042
	X6201	CERAMIC RESONATOR (456kHz)	ASS1066
	X6202	CERAMIC RESONATOR (450kHz)	ATF1027
	BN6201	4P ANTENNA TERMINAL	AKE7028
	CN6201	14P SOCKET	KP200IA14L
		AM RF TUNING BLOCK	AXX1025

6. ADJUSTMENT

6.1 TUNER ADJUSTMENT

■ ADJUSTMENT OF FM TUNER SECTION

- Set the FM/AM selector to FM BAND.
- Connect the wiring as shown in Fig. 6–1.

Step No.	Adjustment Title	FM SG (1kHz, ± 75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Center Adjustment	98 Non modulation	80 or more	–	L6207	Adjust so that the DC voltage between IC6201-pin 4 and pin 28 (or ⊕ leads of C6224 and C6261) becomes 0V ± 50mV.
2	Front End Sensitivity Adjustment	98	Low input (0 to 30)	98MHz	L6102 T6101	Adjust so that the DC voltage between IC6201-pin 12 and GND (or ⊕ leads of C6238 and GND) becomes at maximum level.
3	Stereo Distortion	98	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15 (± 2dB)	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- Before adjusting, make sure there is no gap between L6101 and L6102 . If there is a gap between them, bring them into contact with each other first, and then make adjustments.
- Make indicator adjustments in order of AM→FM.

■ ADJUSTMENT OF AM TUNER SECTION

- Set the FM/AM selector to AM BAND.
- Connect the wiring as shown in Fig. 6–1.

Step No.	Adjustment Title	AM SG (400Hz, ± 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dBμV/m)			
1	TUNED IND. Lighting Level	999 ∗1	47 (± 2dB)	999kHz ∗1	VR6202	Adjust so that the indicator of TUNED IND. starts to light up.

∗1 : For the area using 10kHz step, frequencies should be 1000kHz.

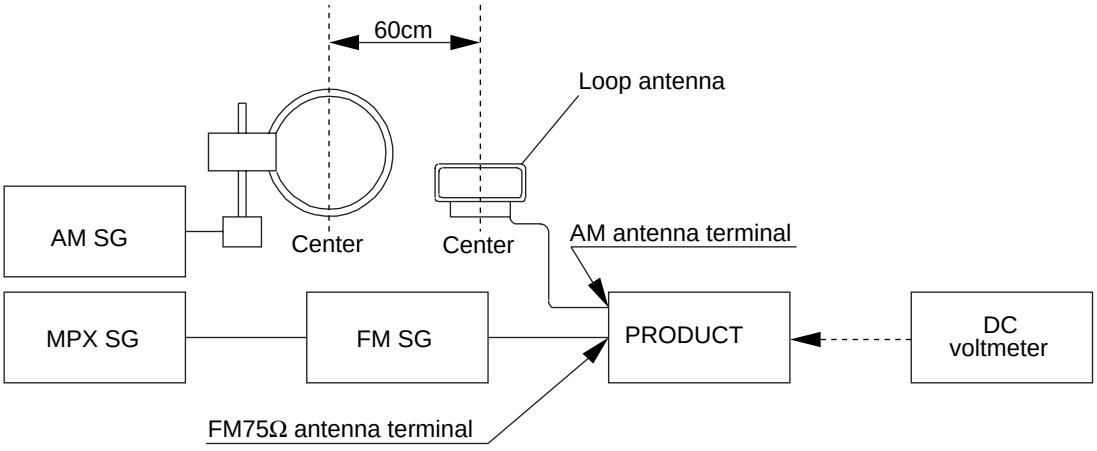


Fig.6-1 AM and FM Adjustment Wiring Diagram

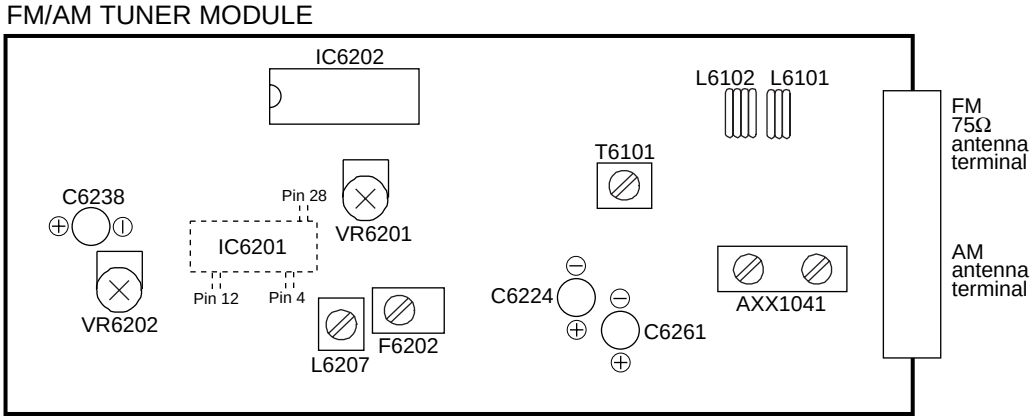


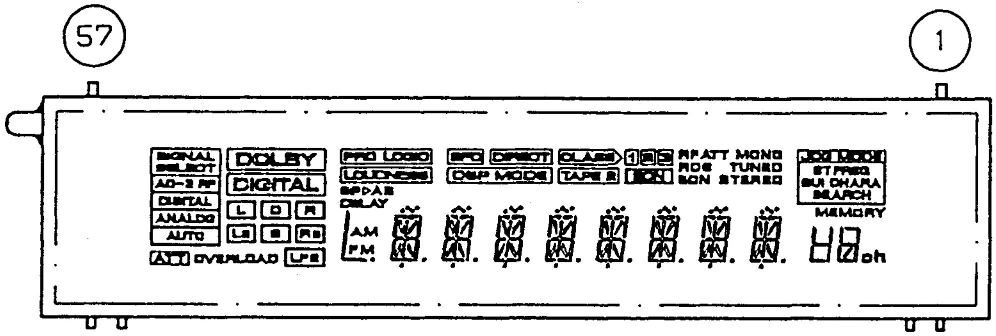
Fig.6-2 Adjustment Points

7. GENERAL INFORMATION

7.1 DISPLAY

■ AAV7034 (FL/U-COM ASSY : V901)

• **FL TUBE**



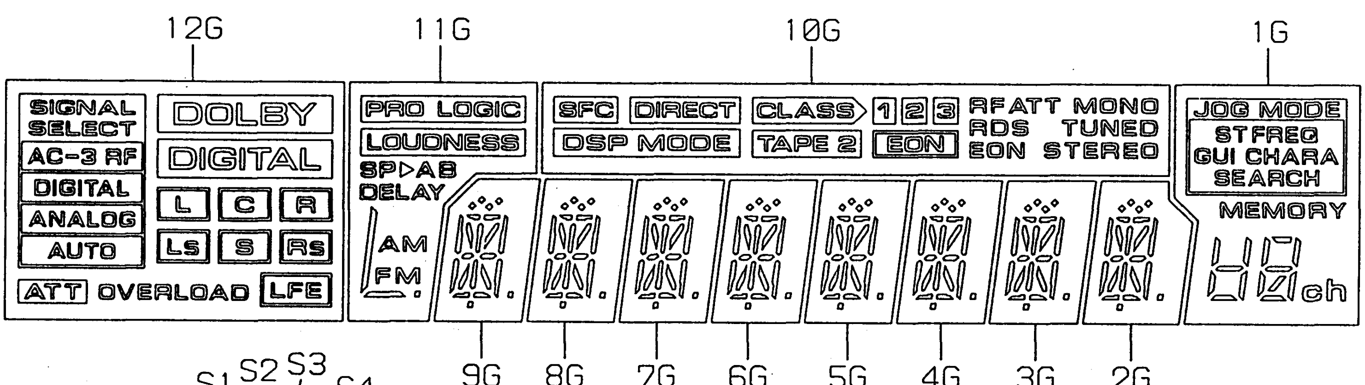
● **Pin Assignment**

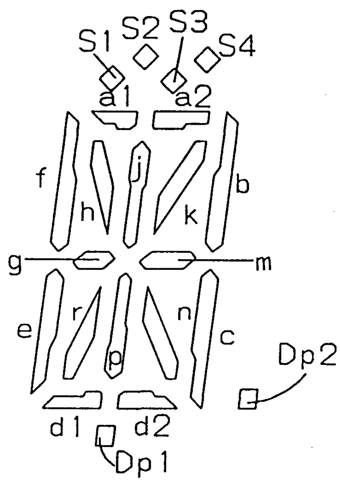
PIN NO.	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29
CONNECTION	F2	F2	NP	NP	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	P21	P20	P19	P18	P17	P16	P15	P14	P13

PIN NO.	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1

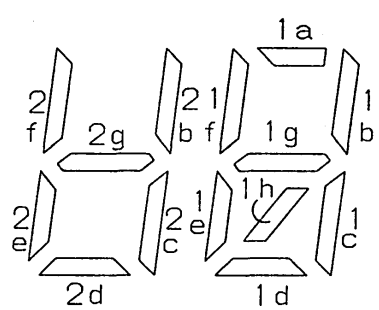
NOTE
1) F1,F2 --- Filament
2) NP ------- No pin
3) NX ------- No extend pin
4) DL ------- Datum Line
5) 1G~12G --- Grid

● **Grid Assignment**





(9G~2G)

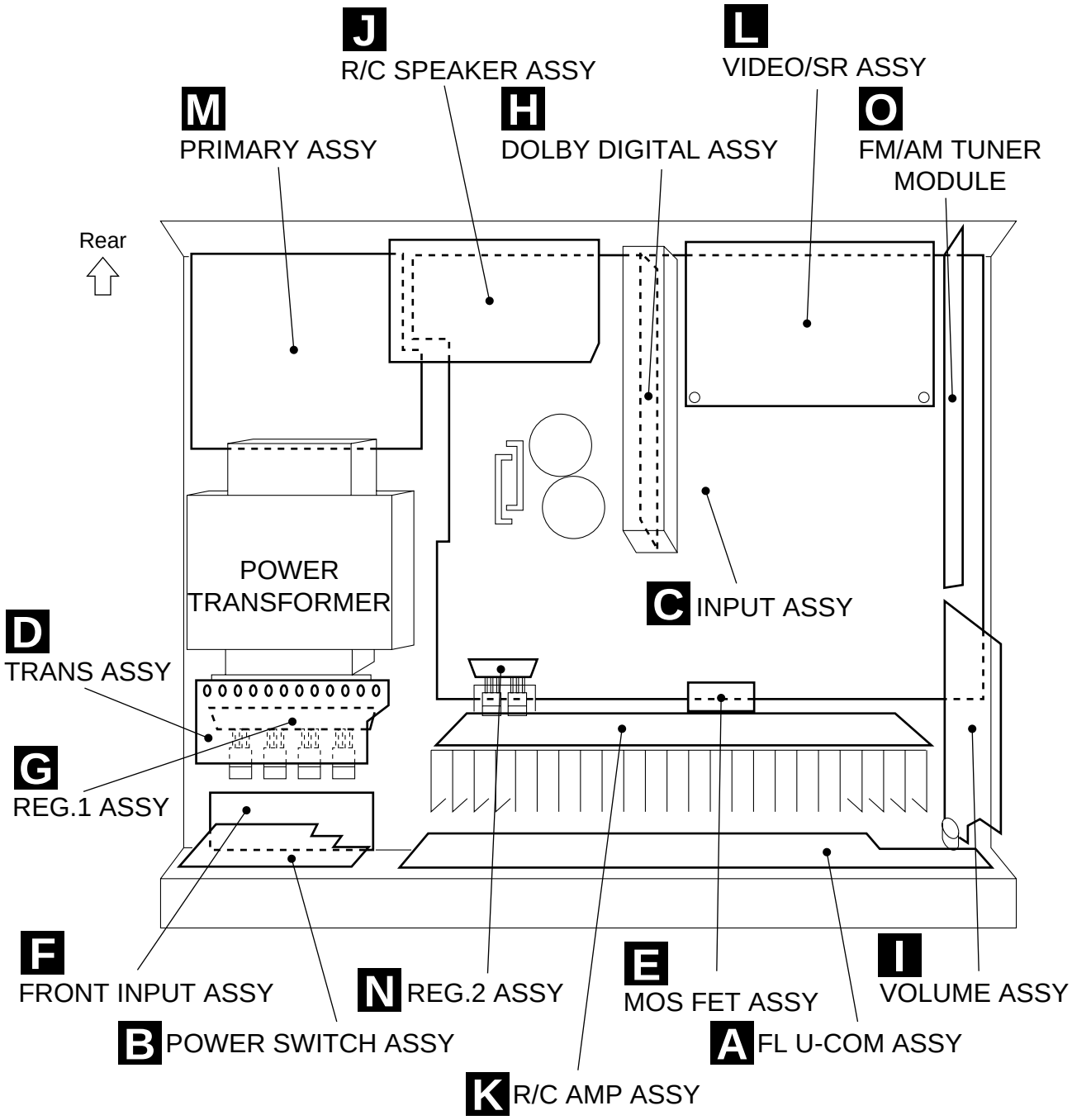


(1G)

● **Anode Connection**

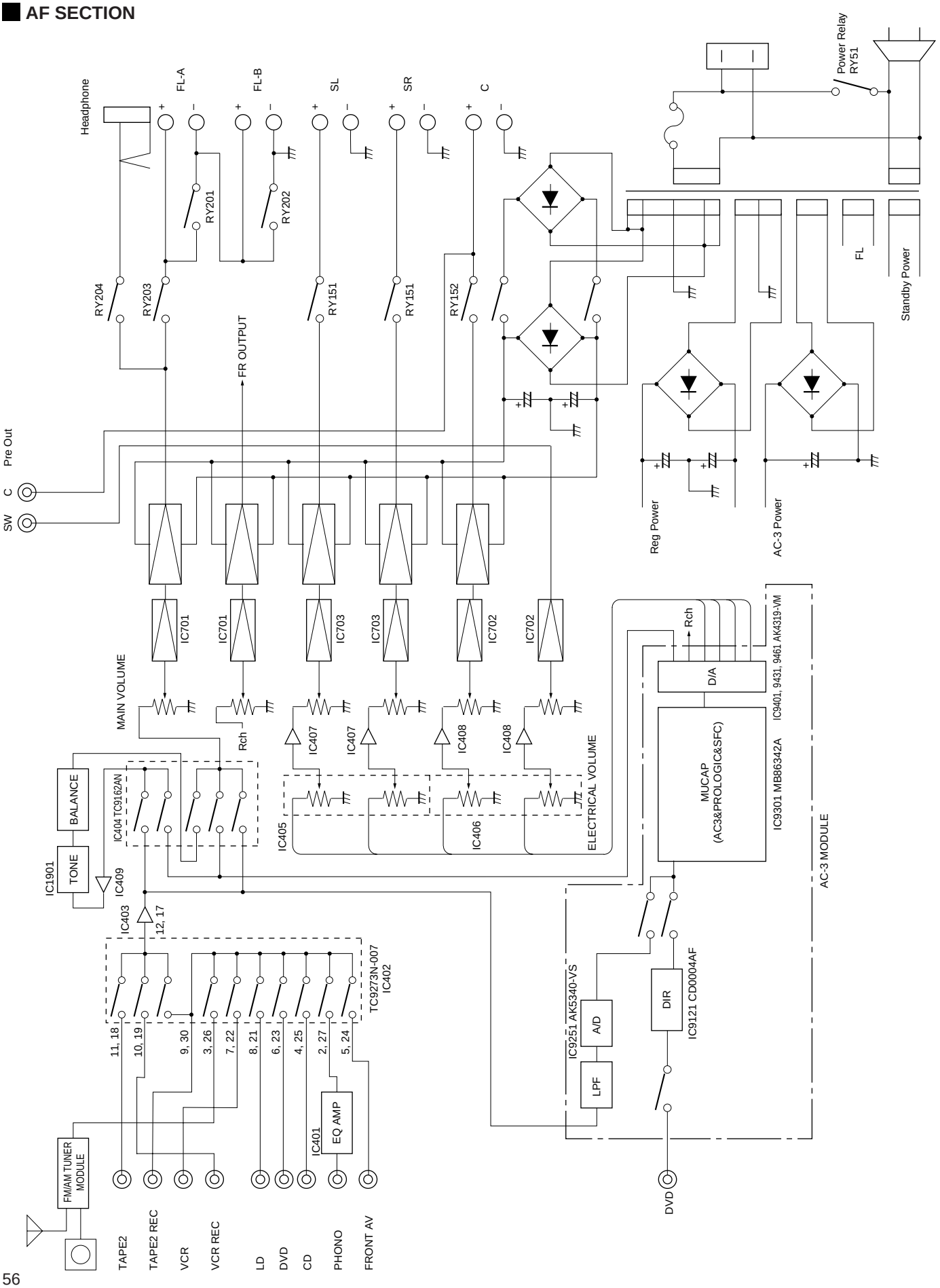
	12G	11G	10G	9G~2G	1G
P1	DOLBY		MONO	a1	2b,2c
P2	DIGITAL	▫	TUNED	a2	2g
P3	R	FM	STEREO	h	2d
P4	LS RS	AM	RFATT	j	2e
P5	(Ls) (Rs)	DELAY	RDS	k	2f
P6	LFE	B	EON	b	1a
P7	(LFE)	A	3	f	1b
P8	C	SP▷	2	m	1f
P9	(C)	LOUDNESS	1	g	1g
P10	S	PRO LOGIC	EON	c	1c
P11	L	–	CLASS	e	1h
P12	(L)	–	TAPE 2	r	1e
P13	OVERLOAD	–	DIRECT	p	1d
P14	SIGNAL SELECT	–	SFC	n	ch
P15	AC-3 RF	–	DSP MODE	d1	MEMORY
P16	DIGITAL	–	–	d2	SEARCH
P17	ANALOG	–	–	Dp1	CHARA
P18	AUTO	–	–	S1,S3	GUI
P19	ATT	–	–	S4	FREQ
P20	–	–	–	S2	ST
P21	–	–	–	Dp2	JOG MODE

7.2 PCB LOCATION



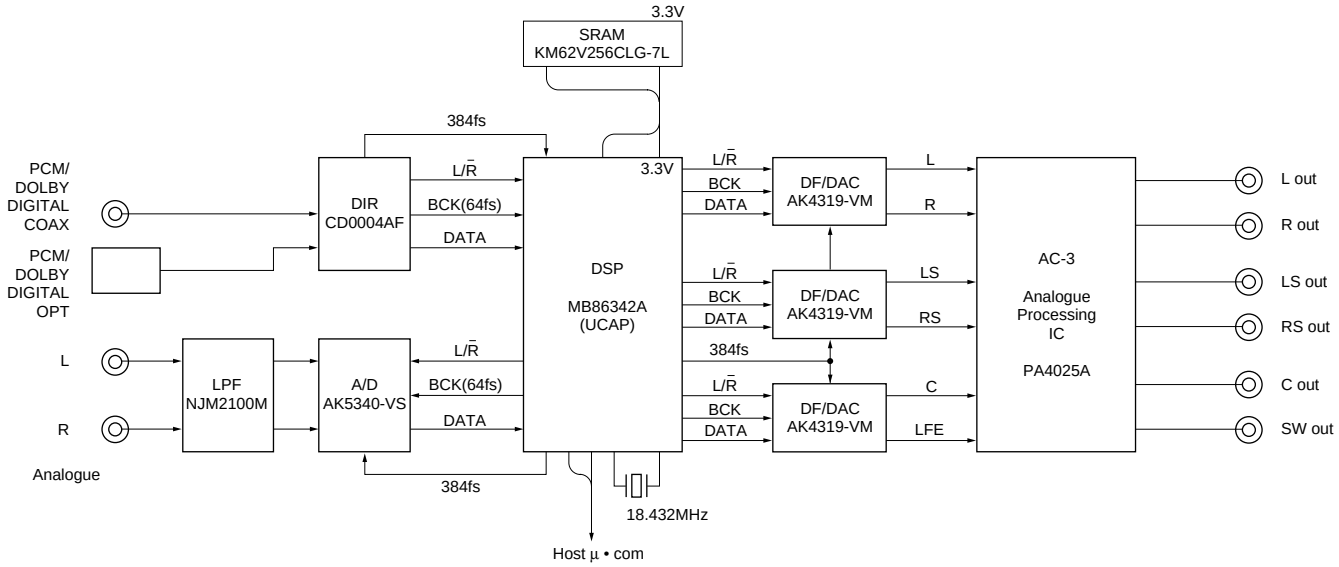
7.3 BLOCK DIAGRAM

AF SECTION

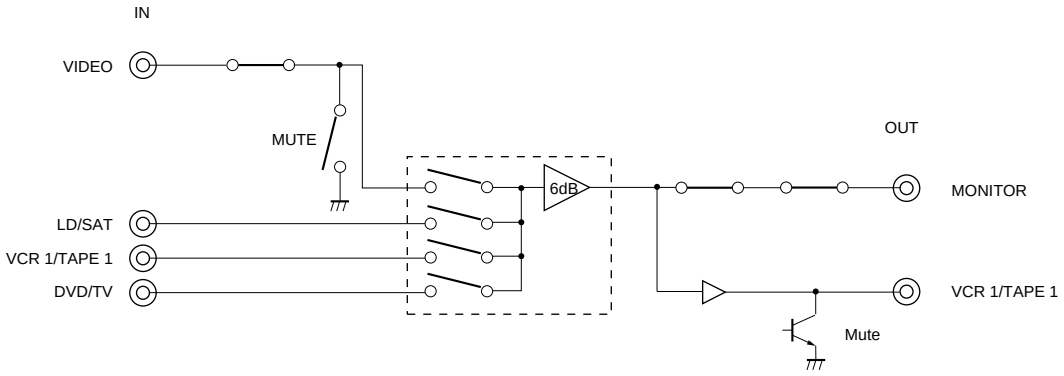


■ AC-3 DECODE ASSY AND VIDEO COMPOSITE SECTION

● AC-3 DECODE ASSY



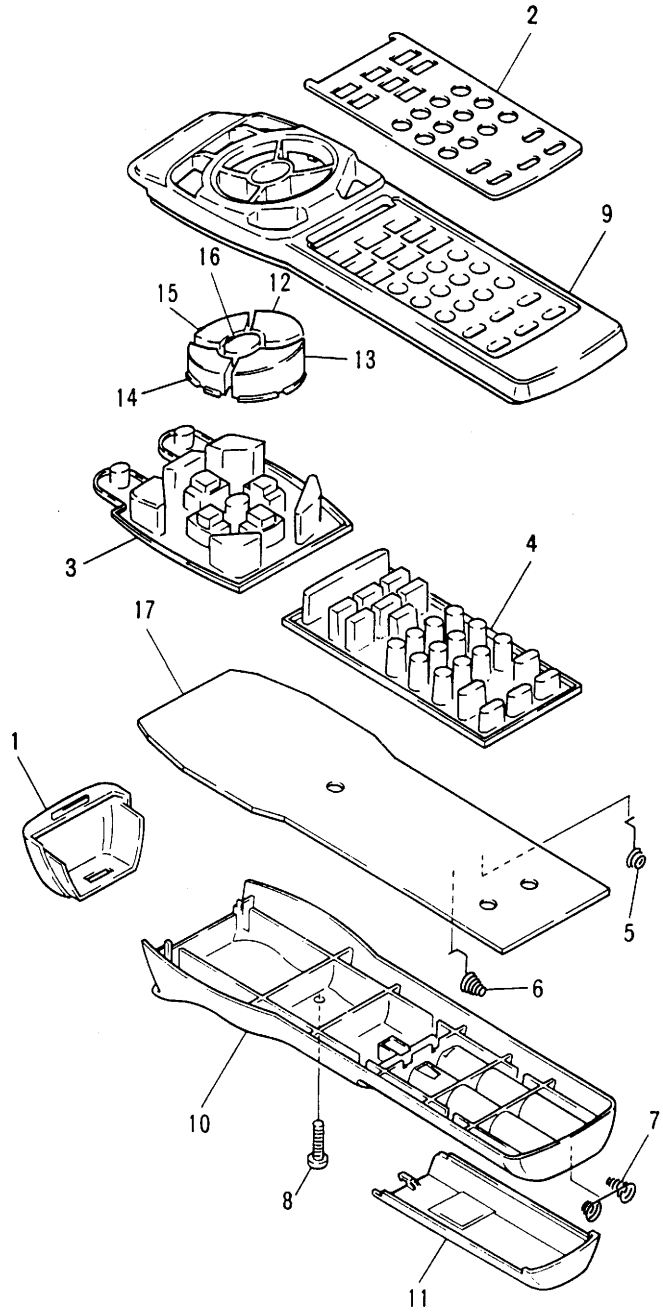
● VIDEO COMPOSITE SECTION



7.4 REMOTE CONTROL UNIT [CU-VSX128 (AXD7153)]

7.4.1 EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*

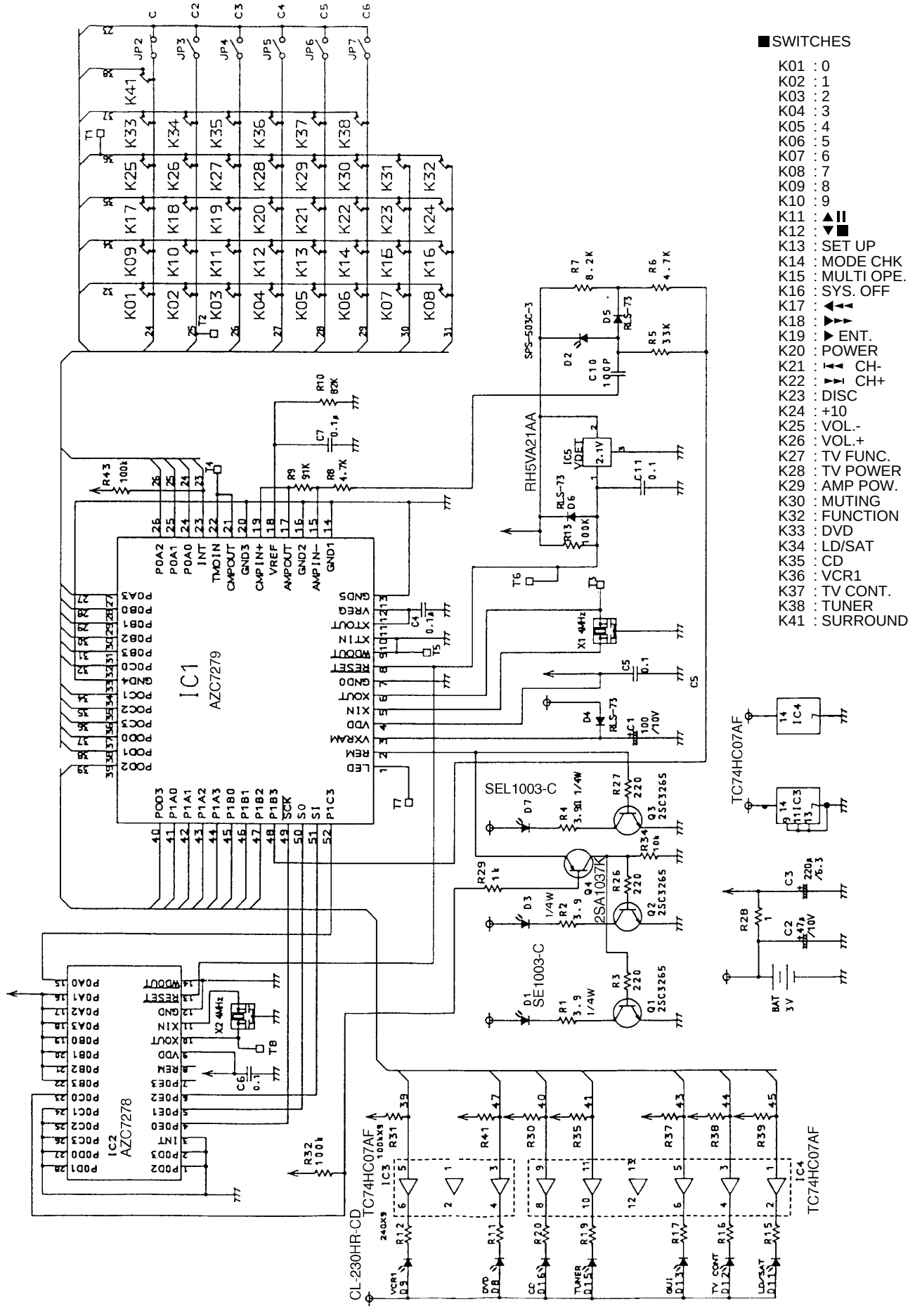


• Parts List

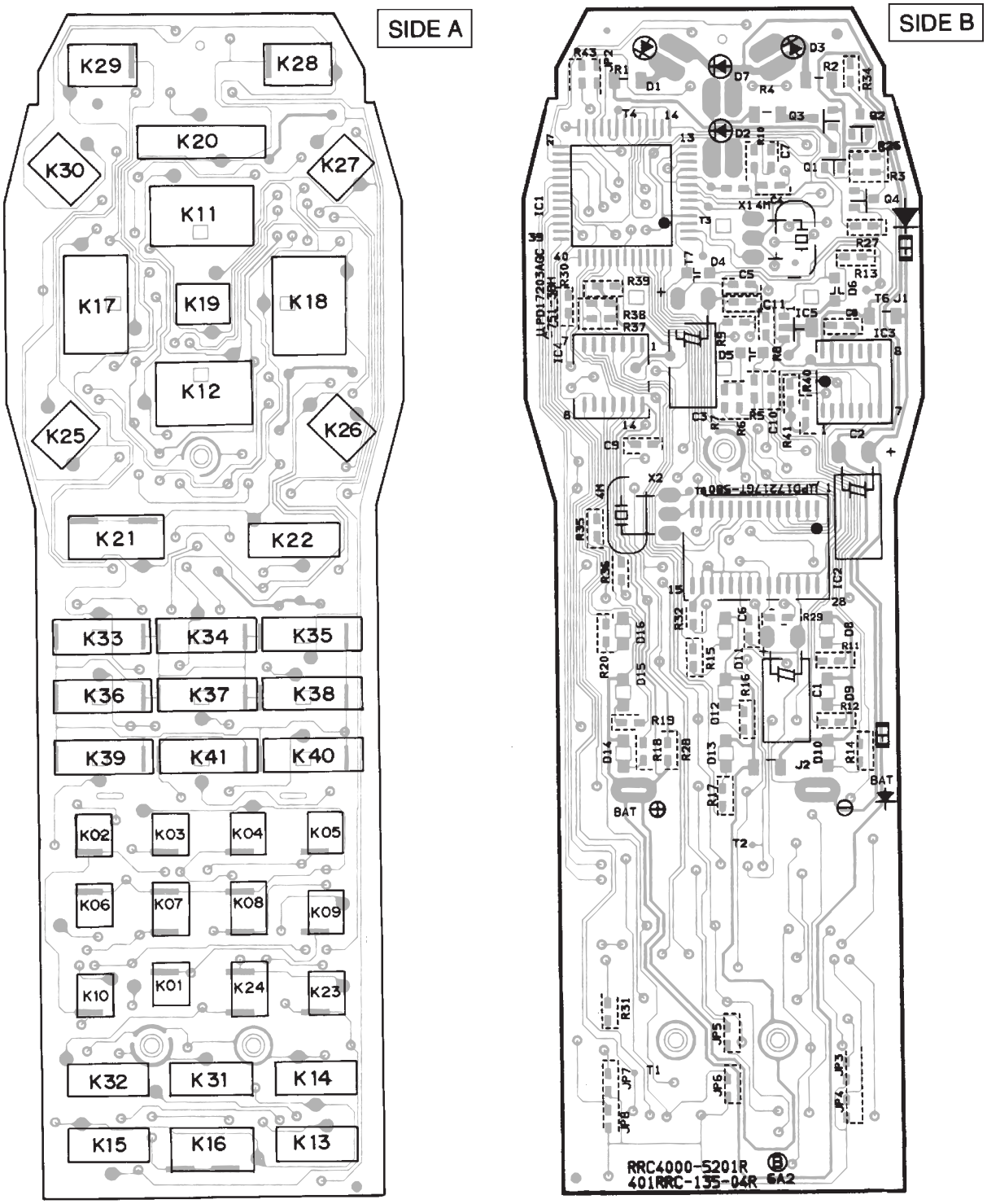
Mark	No.	Description	Part No.
	1	Filter	AZA7152
	2	Name Plate	AZA7283
	3	Rubber Sheet (A)	AZA7236
	4	Rubber Sheet (B)	AZA7243
	5	Spring (+)	AZB7049
	6	Spring (–)	AZB7050
	7	Spring	AZB7051
	8	Screw	AZB7052
	9	Remo-con Case (A)	AZN7672
	10	Remo-con Case (B)	AZN7326
	11	Battery Cover	AZN7327
	12	Main Key (FF)	AZN7666
	13	Main Key (STOP)	AZN7329
	14	Main Key (REV)	AZN7665
	15	Main Key (PAUSE)	AZN7331
	16	Main Key (PLAY)	AZN7664
NSP	17	PCB	AZW7243

7.4.2 SCHEMATIC DIAGRAM

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



7.4.3 PCB DIAGRAM



7.4.4 PCB PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*

● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10¹ → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

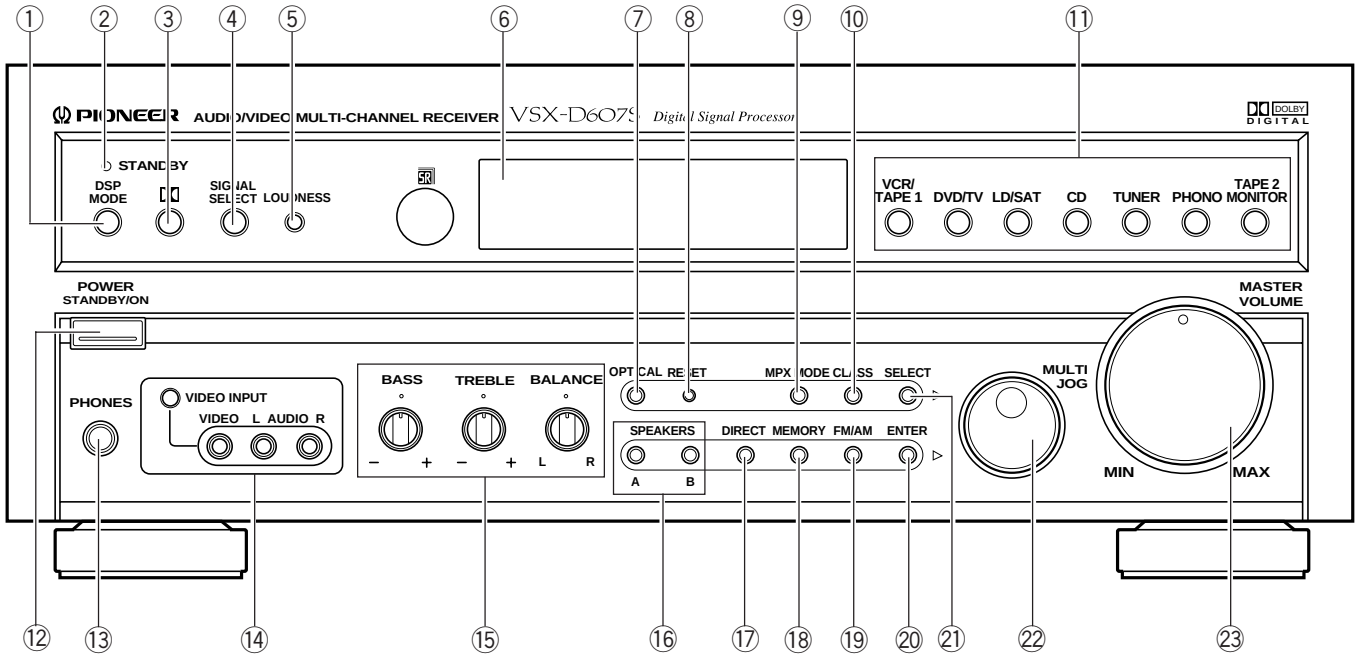
Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC1		AZC7279
	IC2		AZC7278
	IC3,IC4		TC74HC07AF
	IC5		RH5VA21AA
	Q4		2SA1037K
	Q1-Q3		2SC3265
	D1,D3,D7		SE1003-C
	D2		SPS-503C-3
	D8,D9,D11-D13,D15,D16		CL-230HR-CD
	D4-D6		RLS-73
CAPACITORS			
	C2		CEAS470M10
	C4-C7,C11		CKSQYB104K25
	C3		CEAS221M6R3
	C1		CEAS101M6R3
	C10		CCSQCH101J50
RESISTORS			
	R2001,R2002		RS1/8S0R0J
	R1,R2,R4		RS1/8S3R9J
	Other Resistors		RS1/10S□□□J
OTHERS			
	X1,X2	RESONATOR (4MHz)	KBR-4.0M

8. PANEL FACILITIES AND SPECIFICATIONS

NAMES OF PARTS

* The size of characters shown in the figure may differ from that on the actual product.

Front panel



① **DSP MODE button**

② **STANDBY indicator**

③ **DOLBY DIGITAL button**

④ **SIGNAL SELECT button**

⑤ **LOUDNESS button**
Press this button when the volume is low to raise the low and high range levels so that the sound can be heard more easily.

⑥ **Display**

⑦ **OPTICAL button**

⑧ **RESET button**

⑨ **MPX MODE button**
Use to switch the auto stereo/monaural mode for receiving FM broadcasts. When the received broadcast signal is weak, press this button to set the monaural mode.

⑩ **CLASS button**

⑪ **Function buttons**

⑫ **POWER STANDBY/ON button**

⑬ **PHONES jack (Headphone terminal)**

⑭ **VIDEO INPUT button/terminal**
Connect to a video camera, etc.

⑮ **TONE and BALANCE controls**
Use to adjust tone and balance.

⑯ **SPEAKERS A, B buttons**
ON/OFF switches for the A and B speaker systems.

⑰ **DIRECT button**
Use to play back sound without going through the tone and balance control circuits. DOLBY SURROUND MODE, DSP MODE and LOUDNESS also turn off.

⑱ **MEMORY button**

⑲ **FM/AM button**
Use to switch the FM/AM frequency band reception.

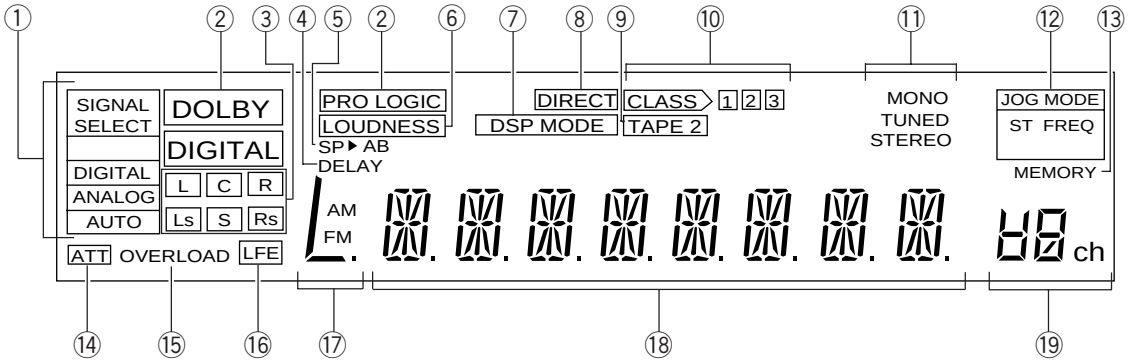
⑳ **ENTER button**

㉑ **SELECT button**
Use to switch the control of the MULTI JOG between station mode and frequency mode when operating the tuner.

㉒ **MULTI JOG**
Use to select the frequency and station number when operating the tuner.

㉓ **MASTER VOLUME**

Display



① **SIGNAL SELECT indicators**
The input signal format currently selected will light .

② **DOLBY DIGITAL and PRO LOGIC indicators**
"DOLBY" lights when the Dolby Surround mode is ON. There are two Dolby Surround modes-Dolby Digital (AC-3) and Dolby Pro Logic. "DOLBY" and "DIGITAL" light during Dolby Digital, and "DOLBY" and "PRO LOGIC" light when played back in Dolby Pro Logic.

③ **PROGRAM FORMAT indicators**
When playing back in the Dolby Digital (AC-3) mode, the indicator of the channel set for the playback source lights.

④ **DELAY indicator**
Lights when the delay time is being set.

⑤ **Speakers A, B indicator**
The indicator of the speaker system (A, B) selected will light.

⑥ **LOUDNESS indicator**
Lights when LOUDNESS is ON.

⑦ **DSP MODE indicator**
Lights when DSP MODE is selected.

⑧ **DIRECT indicator**
Lights when DIRECT is ON.

⑨ **TAPE 2 indicator**
Lights when TAPE 2 MONITOR is ON.

⑩ **CLASS 1, 2, 3 indicators**
The indicator of the class number selected lights.

⑪ **TUNER indicator**

MONO:
Lights when the monaural mode is set using the MPX MODE button.

TUNED:
Lights when broadcasts are being received.

STEREO:
Lights when stereo broadcasts are received during auto stereo mode.

⑫ **JOG MODE indicator**

ST:
Lights when the station mode is selected.

FREQ:
Lights when the frequency mode is selected.

⑬ **MEMORY indicator**
Lights when station memory is selected.

⑭ **ATT indicator**
Lights when INPUT ATT is ON.

⑮ **OVERLOAD indicator**
Lights if the input level is excessive when ANALOG is selected (including AUTO) using the SIGNAL SELECT button.

⑯ **LFE indicator**
"LFE" lights when the LFE (Low Frequency Effects) channel is set for the playback source with Dolby Digital. The LFE indicator also lights when LFE signals are input.

⑰ **AM/FM indicators**
The indicator of the band currently selected (AM/FM) lights.

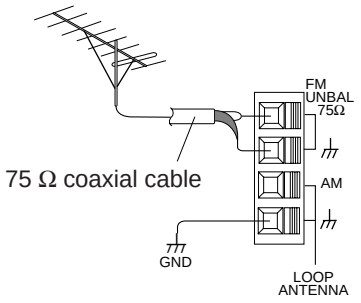
⑱ **CHARACTER display**

⑲ **STATION display**
Indicates the station number currently selected.

CONNECTING DEVICES

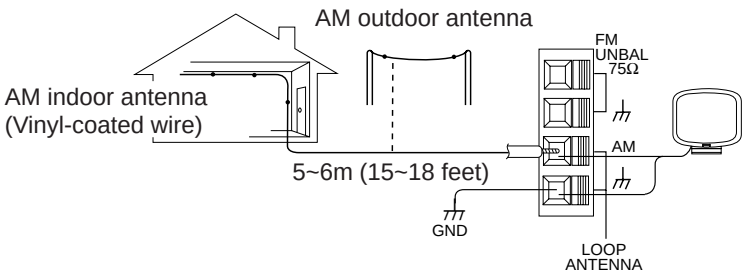
When connecting or changing equipment, be sure to turn OFF the POWER switch, and disconnect the power cord from the wall outlet.

■ For better reception of signals, use an FM external antenna.

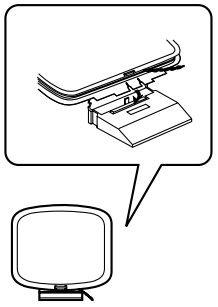


■ When AM broadcast reception is poor

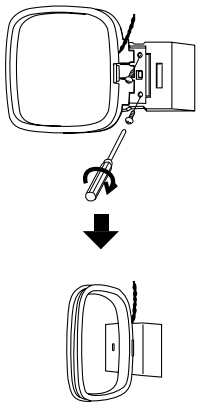
Connect a 5 to 6 meter (15~18 feet) long vinyl-coated wire to the AM antenna. If possible, draw horizontally outdoors to achieve better reception.



■ Assembling the AM loop antenna



When attached onto a wall, etc.



Face towards the direction with the best reception.

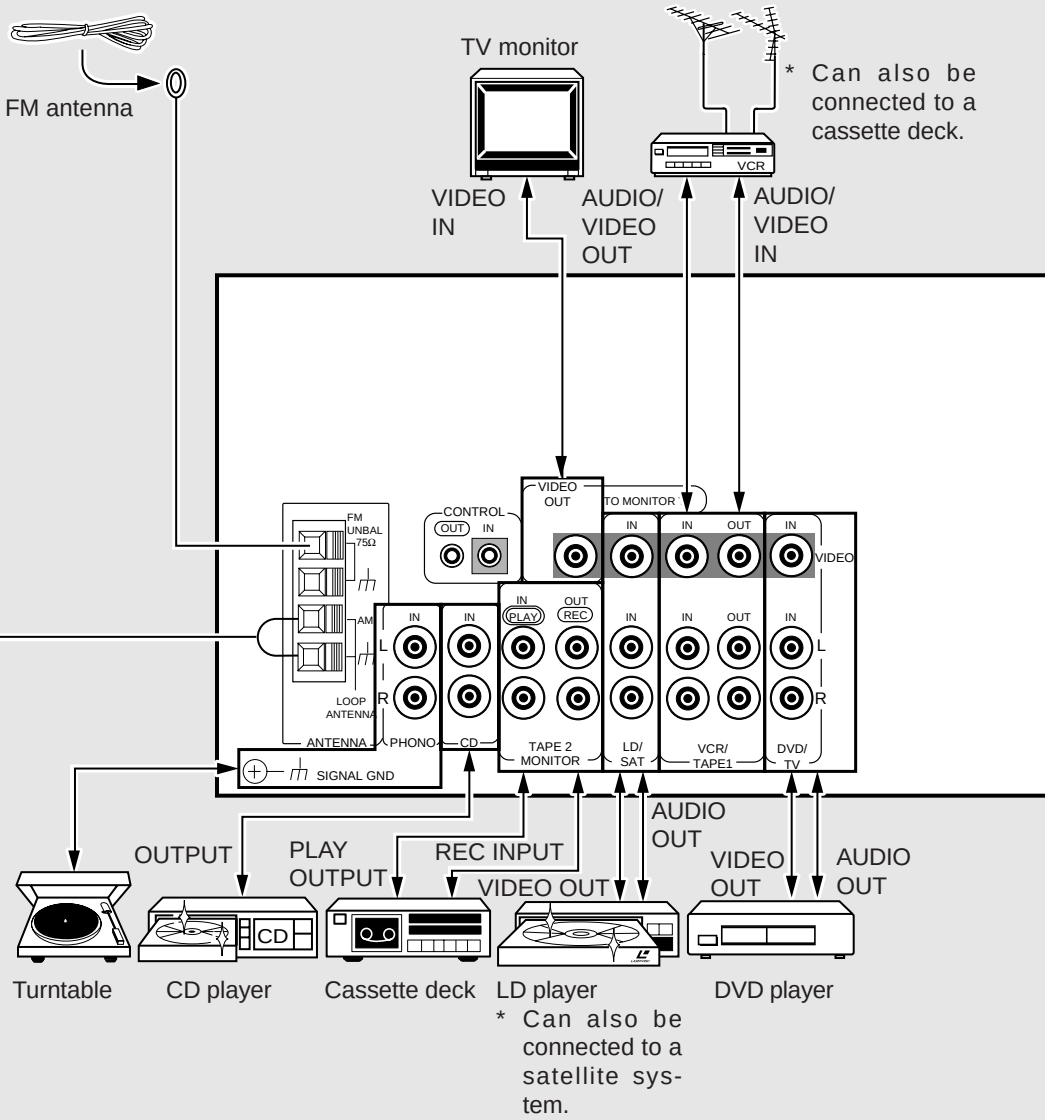
Stretch out the antenna fully and secure onto a wall using pins.

FM antenna

VCR

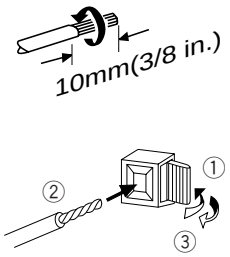
TV monitor

* Can also be connected to a cassette deck.

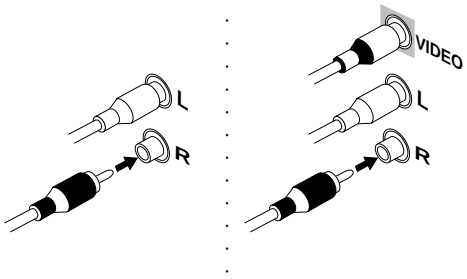


* Can also be connected to a satellite system.

■ Antenna terminal

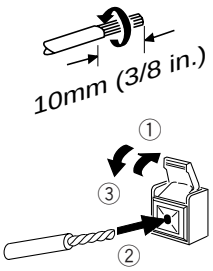


■ Input/output plug

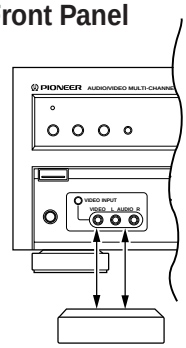


Connect the white plug to L, red plug to R, and yellow plug to VIDEO. Be sure to insert completely.

■ Speaker terminal

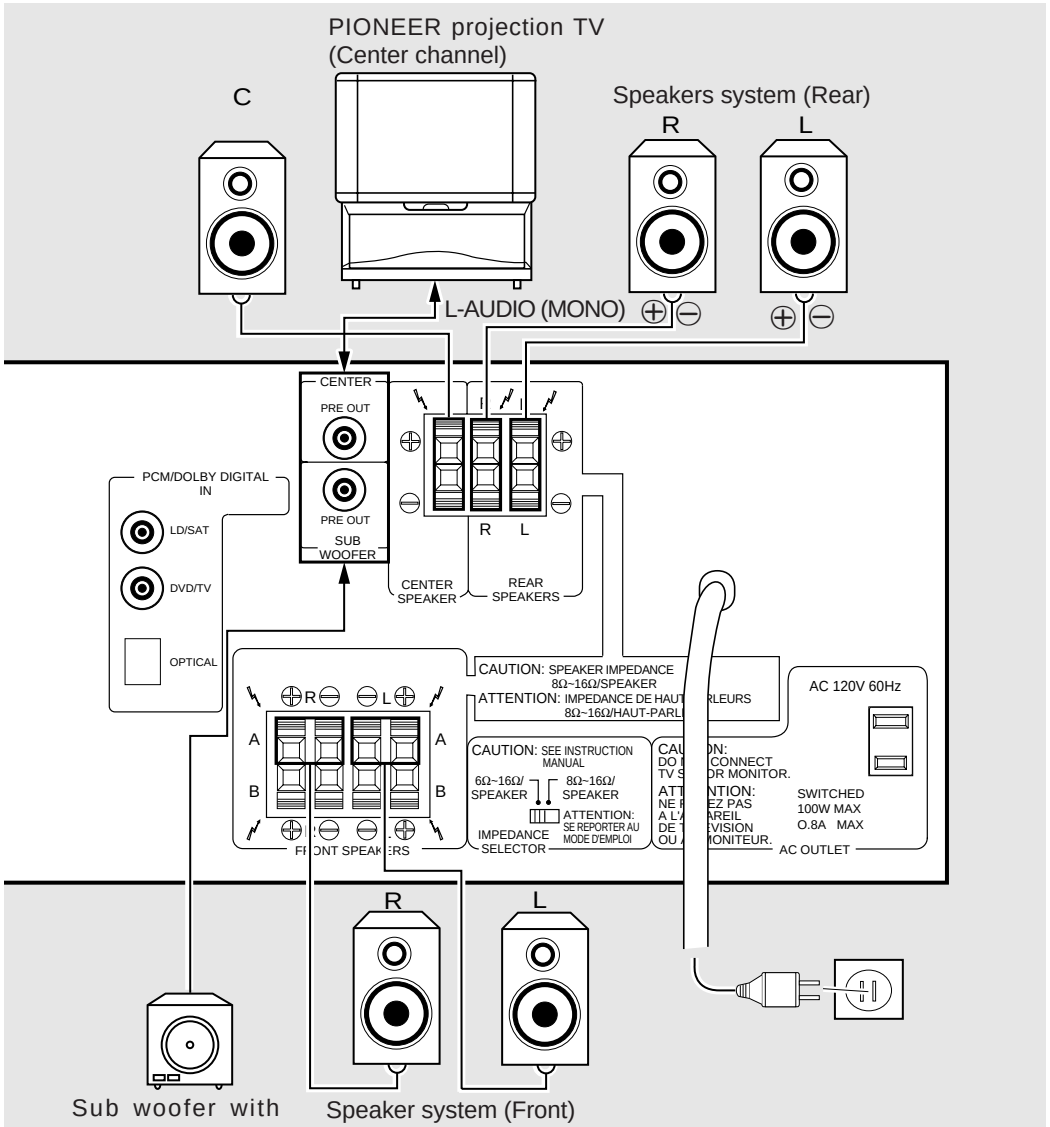


■ Front Panel



Connect to equipment such as a video camera, etc.

* The size of characters and terminal positions in the figures may differ from those on the actual product.



* The sub woofer can be connected in a different way. For details, refer to the instructions on the sub woofer.

AC OUTLET

[SWITCHED 100 W (0.8 A) MAX]

Power supplied through this outlet is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).

memo

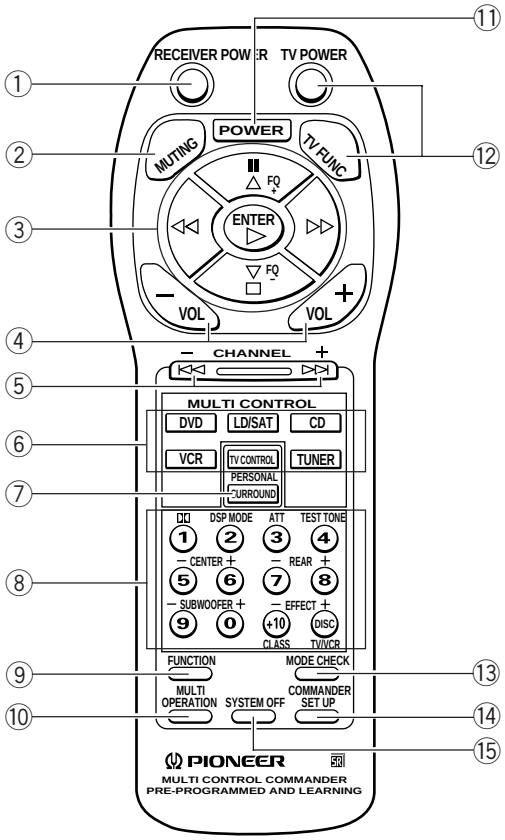
- This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g., when on vacation.
- Do not connect appliances with high power consumption such as heaters, irons, or television sets to this AC OUTLET in order to avoid overheating and fire risk. This can also cause the receiver to malfunction.

CAUTION:
DO NOT CONNECT A MONITOR OR TV SET TO THIS UNIT'S AC OUTLET.

memo

Use nominal impedances such as 6 Ω to 16 Ω or 8 Ω to 16 Ω for the speaker system. When using 6 Ω to 16 Ω, switch the IMPEDANCE SELECTOR to 6 Ω to 16 Ω.

Remote control unit



① **RECEIVER POWER button**

② **MUTING button**
Press to mute the volume.

③ **[When set to SURROUND (OPERATIONS)]**
△,▽,◁,▷ (Select/Adjust) and ENTER buttons
[When set to other than SURROUND (OPERATIONS)]
⏸(Pause), □ (Stop), ◁◁(Rewind), ▷▷(Fast Forward), ▷ (Play) buttons

④ **VOL (–, +) buttons**

⑤ **[TV Operations]**
Selects the TV broadcast channel.
[CD, LD, DVD operations]
⏮, ⏭ (Chapter/Track Search) buttons

⑥ **MULTI CONTROL function buttons**
Use to set and operate MULTI CONTROL, and switch the function.
TV CONTROL: Press to operate the TV.

⑦ **SURROUND/PERSONAL button**
[When setting MULTI operations]
Press when setting the personal mode using multi operations.
[When setting to other than MULTI operations]
Press when performing surround operations and setting/changing setting modes.

⑧ **Number/surround setting buttons**
[When setting surround (operations)]
DD : Turns the Dolby Surround mode ON/OFF.
DSP MODE: Switches the surround effects.
ATT: If turned ON when the sound is unstable due to excessive input levels, the input signal level drops so that the sound becomes clearer.
TEST TONE: When turned ON (while in surround mode), volume balance adjustment signals are output in order from the speakers and can be adjusted.
CENTER –, +: Adjusts the center level.
REAR –, +: Adjusts the rear level.
SUB WOOFER –, +: Adjusts the sub woofer level.
EFFECT –, +: Adjusts DSP effects.
[Tuner Operations]
Number buttons: Use for setting the frequency value when station call is selected or during direct access.
CLASS: Switches the CLASS number.
[VCR Operations]
TV/VCR: Switches between TV/VCR.
[CD Operations]
DISC: Use to select the DISC number.

⑨ **FUNCTION button**
Switches the function.

⑩ **MULTI OPERATION button**
Use to set multi operations.

⑪ **POWER button**
Turns ON/OFF the power of devices other than this unit.

⑫ **TV buttons**

⑬ **MODE CHECK button**

⑭ **COMMANDER SET UP button**
Use to control and learn operations of other manufacturers' equipment, and set multi operation functions.

⑮ **SYSTEM OFF button**
Use to turn OFF the power of all equipment connected to the main unit.

SPECIFICATIONS

Amplifier Section

Continuous average power output of 100 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output
- Front ..... 100 W + 100 W (1 kHz, 0.8 %, 8 Ω)
- Center ..... 100 W (1 kHz, 0.8 %, 8 Ω)
- Rear ..... 100 W (1 kHz, 0.8 %, 8 Ω)

Input (Sensitivity/Impedance)
- PHONO MM ..... 2.8 mV/47 kΩ
- LD/SAT, CD, VCR/TAPE 1, TAPE 2
- DVD/TV, VIDEO ..... 200 mV/47 kΩ

Phono Overload Level (T.H.D. 0.1 %, 1kHz)
- PHONO MM ..... 100 mV

Frequency Response
- PHONO MM ..... 20 Hz to 20,000 Hz ± 0.3 dB
- LD/SAT, CD, VCR/TAPE 1, TAPE 2
- DVD/TV, VIDEO ..... 5 Hz to 100,000 Hz $^{+0}_{-3}$ dB

Output (Level/Impedance)
- VCR/TAPE 1 REC, TAPE 2 REC ..... 200 mV/2.2 kΩ

Tone Control
- BASS ..... ± 9 dB (100 Hz)
- TREBLE ..... ± 9 dB (10 kHz)

Signal-to-Noise Ratio (IHF, short circuited, A network)
- PHONO MM ..... 75 dB
- LD/SAT, CD, VCR/TAPE 1, TAPE 2, DVD/TV, VIDEO ..... 97 dB

Signal-to-Noise Ratio [EIA, at 1 W (1kHz)]
- PHONO MM ..... 75 dB
- LD/SAT, CD, VCR/TAPE 1, TAPE 2, DVD/TV, VIDEO ..... 80 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

*** Measured by Audio Spectrum Analyzer.*

VIDEO Section

Input (Sensitivity/Impedance)
- LD/SAT, VCR, DVD/TV, VIDEO ..... 1 Vp-p/75 Ω

Output (Level/Impedance)
- VCR REC, MONITOR TV ..... 1 Vp-p/75 Ω

Frequency Response
- LD/SAT, VCR, DVD/TV, VIDEO
- → MONITOR ..... 5 Hz to 7 MHz $^{+0}_{-3}$ dB

Signal-to-Noise Ratio ..... 55 dB

Cross Talk ..... 55 dB

FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... Mono: 11.2 dBf, IHF (1.0 μV/75 Ω)
50 dB Quieting Sensitivity ..... Mono: 16.8 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio ..... Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion ..... Stereo: 0.5 % (1kHz)
Alternate Channel Selectivity ..... 60 dB (400 kHz)
Stereo Separation ..... 40 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz (± 1) dB
Antenna Input ..... 75 Ω unbalanced

AM Tuner Section

Frequency Range ..... 531 kHz to 1,602 kHz (9 kHz step)
530 kHz to 1,700 kHz (10 kHz step)
Sensitivity (IHF, Loop antenna) ..... 350 μV/m
Selectivity ..... 25 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... Loop antenna

Miscellaneous

Power Requirements ..... AC 120 V, 60 Hz
Power Consumption ..... 280 W, 400 VA
In Standby Condition ..... 2.5 W
AC Outlet
- SWITCHED ..... 100 W (0.8 A) MAX

Dimensions ..... 420 (W) × 158 (H) × 374 (D) mm
16-9/16 (W) × 6-1/4 (H) × 14-3/4 (D) in.
Weight (without package) ..... 9.4 kg (20 lb 12 oz)

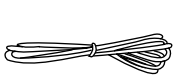
Furnished Parts

FM Antenna 1
AM Loop Antenna 1
Dry Cell Batteries (AA/LR6) 2
Remote Control Unit 1
Operating Instructions 1
Sub Instruction Manual (Remote Control Unit) 1
Sub Instruction Manual [Dolby Digital (AC-3)] 1

NOTE:

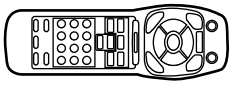
Specifications and the design are subject to possible modifications without notice, due to improvements.

• ACCESSORIES

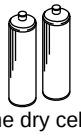


FM antenna
(ADH7004)

AM loop antenna
(ATB7009)



Remote control unit
(AXD7153)
(CU-VSX128)



Alkaline dry cell batteries
(size "AA" IEC LR6) × 2
(AEX1007)